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Buyers Guide HARDWARE '89



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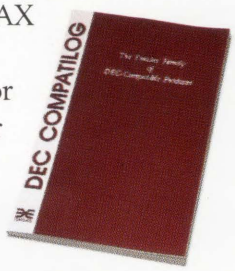
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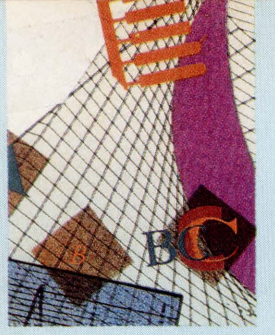
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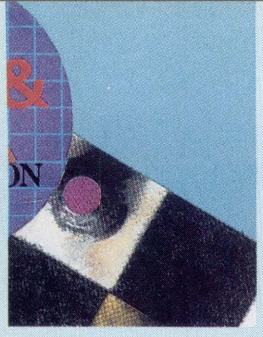
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Remember how computers remembered? Mercury delay lines? Punched cards with 90 columns and round holes? Hand-wired magnetic cores? In case your memory needs refreshing, The Computer Museum would like to share its memories with you.

The Computer Museum Memory Poster
We have created a limited edition, 20″x32″ poster of the picture shown below. Printed in full-color, it includes an identification key to help you recall the memories you've forgotten. To get your poster, along with an information kit on museum membership, exhibits and activities, send a tax-deductible contribution of $25 or more to:
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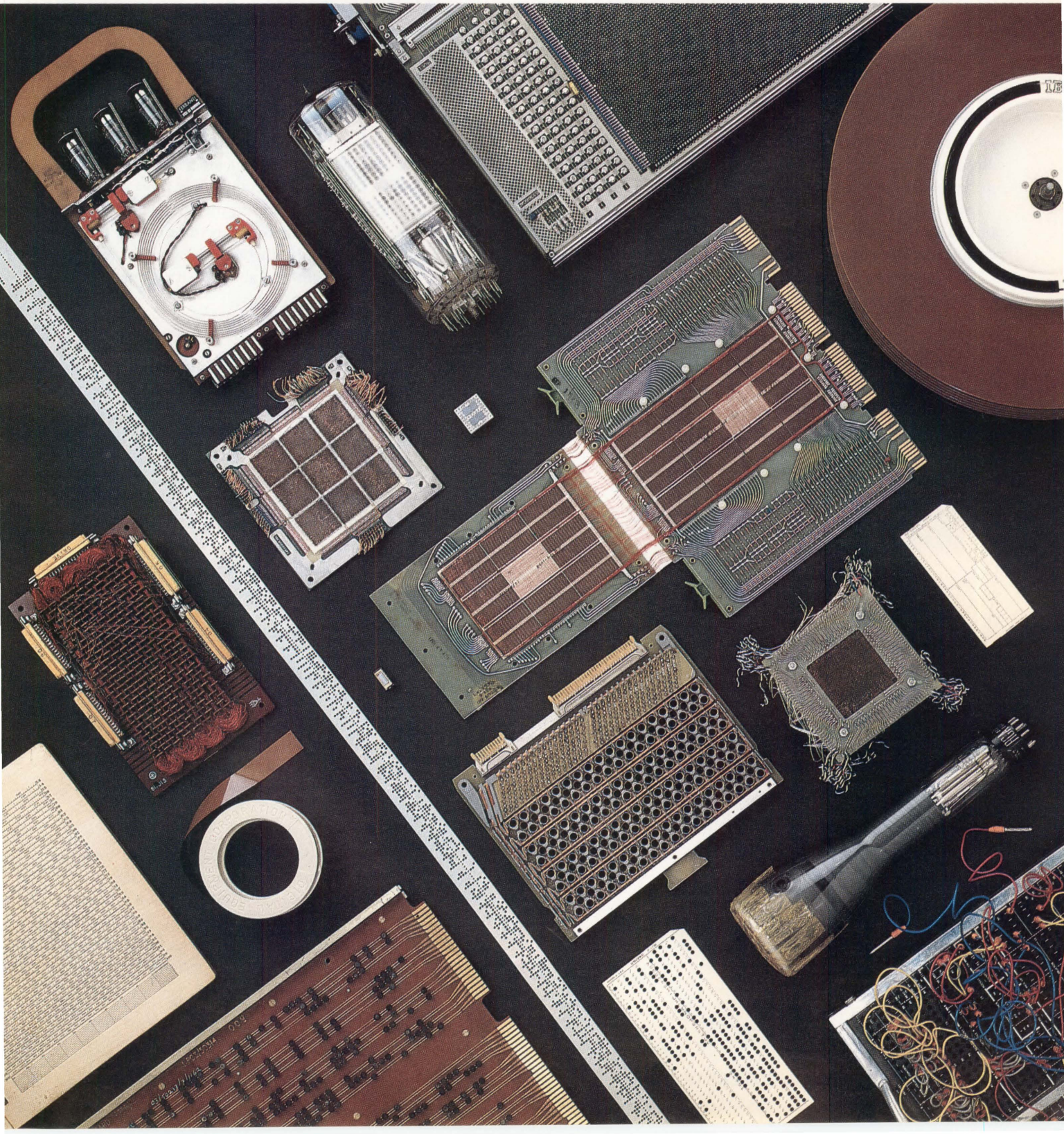
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DEC PROFESSIONAL Hardware Buyers Guide

HOW TO USE

The Editors

This Hardware Buyers Guide provides users of Digital Equipment Corporation (DEC) computers with a comprehensive listing of third-party hardware products and related services. It includes comprehensive product and company information and is organized into 16 categories.

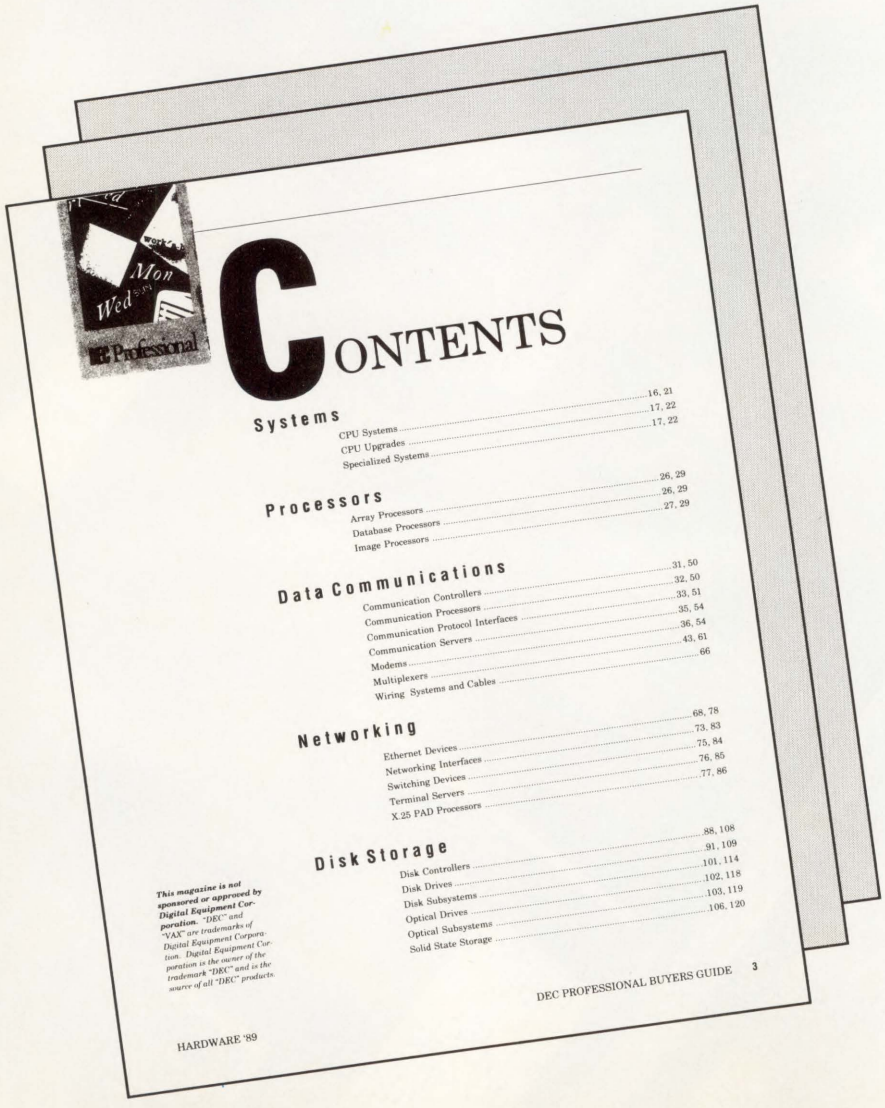
Each chapter is divided into two sections: a quick-reference product-comparison chart and a listing of more specific information on each product.

You also may refer to a separate Manufacturers Index for addresses, telephone numbers and a cross reference to the product information from the company in which you are interested. The Manufacturers Index begins on page 272.

Product Details

If you're interested in comparing all products in a specific category, refer to the Table of Contents to learn where information on that category begins. For example, if you need to know what modems are available and which companies offer them, find Modems in the Table of Contents and refer to the given page number for the complete information.

Then you may take a quick glance through the product-comparison chart for specific information, prices, etc. When you find a product that interests you, refer to the in-depth information about that product later in the same chapter, listed under the company that offers it. Or, you may read the entire chapter for in-depth information about each product.



More Information

The DEC PROFESSIONAL Buyers Guide includes all general information available from each manufacturer. If you need further information, use the Manufacturers Index to contact each company directly for its product information.

Key

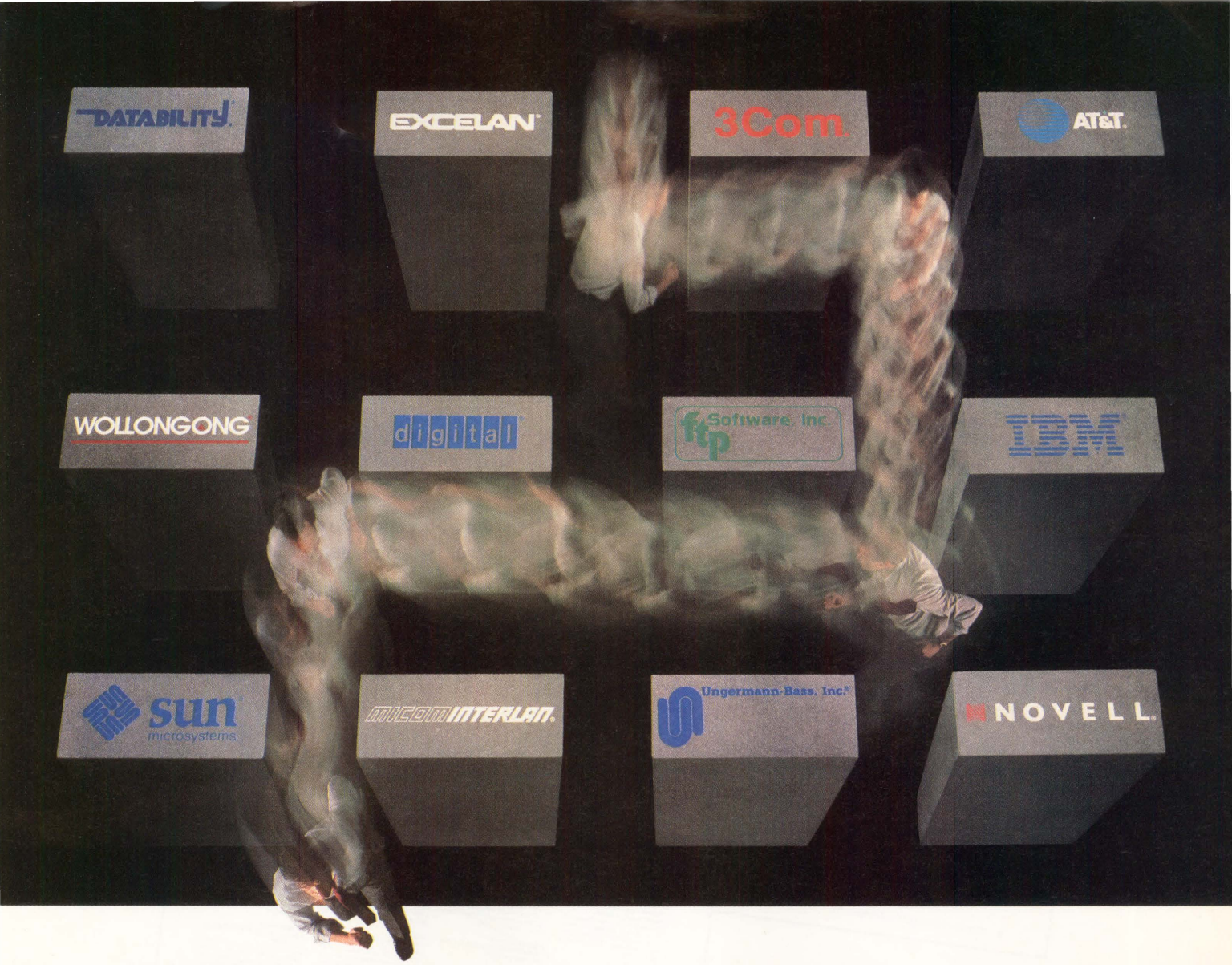
A key to the terms and abbreviations used in this guide is provided on page 214 to help you to further understand the product information.

Lab Seals

Many of the products listed in the DEC PROFESSIONAL Buyers Guide have been tested and reviewed in DEC PROFESSIONAL's DP Laboratory and Testing Center. Use the Lab Seals Index beginning on page 14 for information on how to to find those reviews.

ARIS

The ARIS symbol shown next to many product listings indicates that the product appears on DEC PROFESSIONAL's automated reader information service bulletin board, ARIS/BB. For more information on ARIS/BB contact Anne Schrauger at (215) 957-1500.



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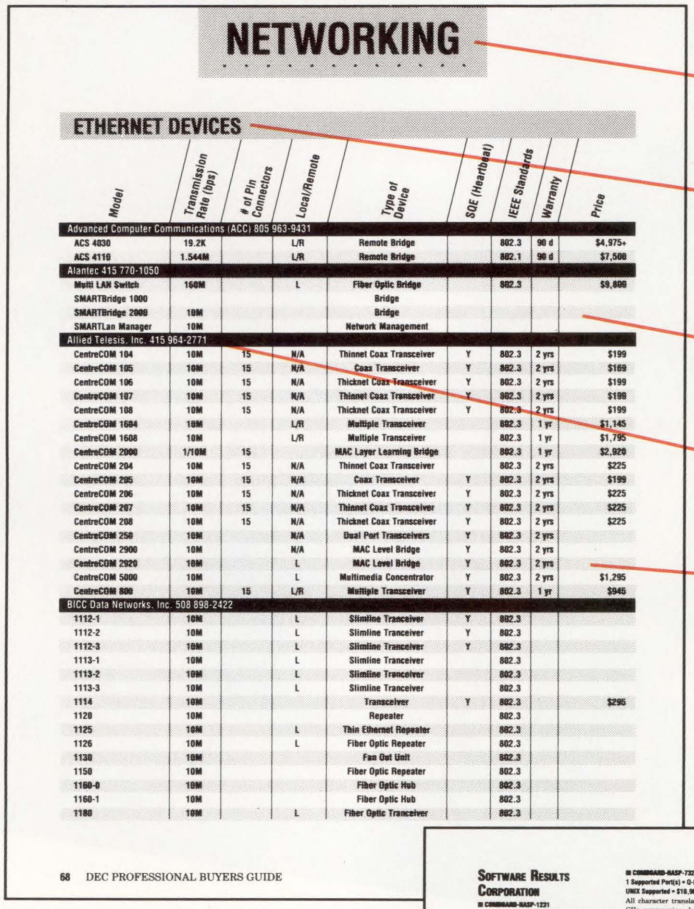
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NETWORKING

ETHERNET DEVICES

Model	Transmission Rate (bps)	# of Pin Connectors	Local/Remote	Type of Device	SQE (Heartbeat)	IEEE Standards	Warranty	Price
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ACS 4030	19.2K		L/R	Remote Bridge		802.3	90 d	$4,975+
ACS 4110	1.544M		L/R	Remote Bridge		802.1	90 d	$7,500
Alantec 415 770-1050								
Multi LAN Switch	160M		L	Fiber Optic Bridge		802.3		$9,800
SMARTBridge 1000				Bridge				
SMARTBridge 2000	10M			Bridge				
SMARTLan Manager	10M			Network Management				
Allied Telesis, Inc. 415 964-2771								
CentreCOM 104	10M	15	N/A	Thinnet Coax Transceiver	Y	802.3	2 yrs	$199
CentreCOM 105	10M	15	N/A	Coax Transceiver	Y	802.3	2 yrs	$169
CentreCOM 106	10M	15	N/A	Thicknet Coax Transceiver	Y	802.3	2 yrs	$199
CentreCOM 107	10M	15	N/A	Thinnet Coax Transceiver	Y	802.3	2 yrs	$199
CentreCOM 108	10M	15	N/A	Thicknet Coax Transceiver	Y	802.3	2 yrs	$199
CentreCOM 1684	10M		L/R	Multiple Transceiver		802.3	1 yr	$1,145
CentreCOM 1608	10M		L/R	Multiple Transceiver		802.3	1 yr	$1,795
CentreCOM 2000	1/10M	15		MAC Layer Learning Bridge		802.3	1 yr	$2,920
CentreCOM 204	10M	15	N/A	Thinnet Coax Transceiver		802.3	2 yrs	$225
CentreCOM 205	10M	15	N/A	Coax Transceiver	Y	802.3	2 yrs	$199
CentreCOM 206	10M	15	N/A	Thicknet Coax Transceiver	Y	802.3	2 yrs	$225
CentreCOM 207	10M	15	N/A	Thinnet Coax Transceiver	Y	802.3	2 yrs	$225
CentreCOM 208	10M	15	N/A	Thicknet Coax Transceiver	Y	802.3	2 yrs	$225
CentreCOM 250	10M		N/A	Dual Port Transceivers	Y	802.3	2 yrs	
CentreCOM 2906	10M		N/A	MAC Level Bridge	Y	802.3	2 yrs	
CentreCOM 2920	10M		L	MAC Level Bridge	Y	802.3	2 yrs	
CentreCOM 5000	10M		L	Multimedia Concentrator	Y	802.3	2 yrs	$1,295
CentreCOM 800	10M	15	L/R	Multiple Transceiver	Y	802.3	1 yr	$945
BICC Data Networks, Inc. 508 898-2422								
1112-1	10M		L	Slimline Transceiver	Y	802.3		
1112-2	10M		L	Slimline Transceiver	Y	802.3		
1112-3	10M		L	Slimline Transceiver	Y	802.3		
1113-1	10M		L	Slimline Transceiver		802.3		
1113-2	10M		L	Slimline Transceiver		802.3		
1113-3	10M		L	Slimline Transceiver		802.3		
1114	10M			Transceiver	Y	802.3		$295
1120	10M			Repeater		802.3		
1125	10M		L	Thin Ethernet Repeater		802.3		
1126	10M		L	Fiber Optic Repeater		802.3		
1130	10M			Fan Out Unit		802.3		
1150	10M			Fiber Optic Repeater		802.3		
1160-0	10M			Fiber Optic Hub		802.3		
1160-1	10M			Fiber Optic Hub		802.3		
1180	10M		L	Fiber Optic Transceiver		802.3		

68 DEC PROFESSIONAL BUYERS GUIDE

The **product-comparison charts** will help you to easily compare all products in a specific categor

For quick reference, product categories are listed alphabetically, as are the companies within each category.

Find the category you need in an instant with staggered margin headings.

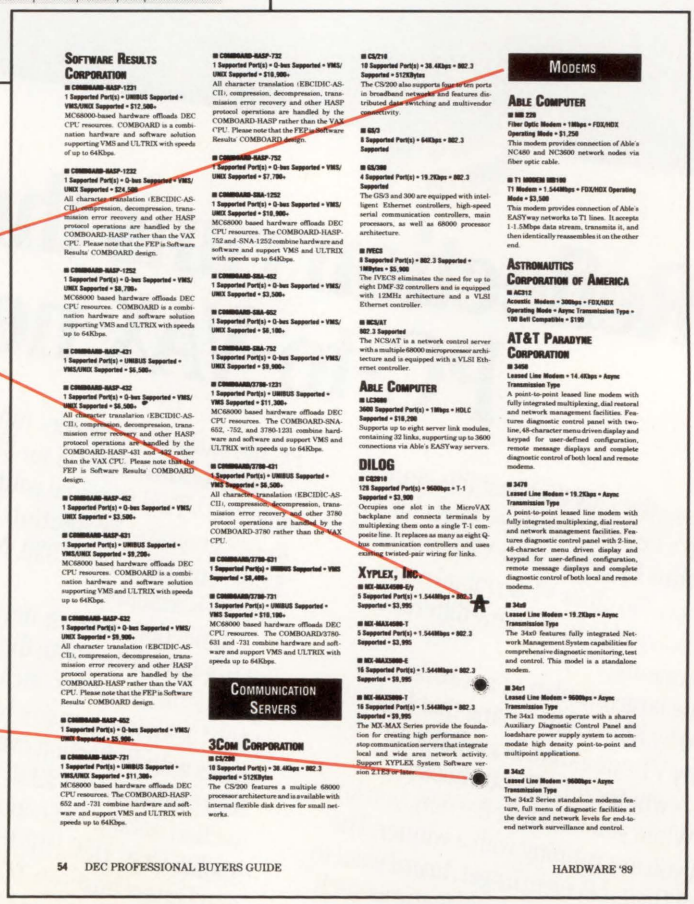
Companies and their telephone numbers are highlighted in the product-comparison charts.

Comprehensive product information will enable you to quickly distinguish one model from another.

Use the **columnar listings** to find more in-depth information about the products.

The ARIS symbol means that you'll find information about the product on DEC PROFESSIONAL's Automated Reader Information Service bulletin board. The dial-in numbers are:
Pennsylvania (215) 957-1000;
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The "Lab Seal" indicates that the product has undergone testing in DEC PROFESSIONAL's Laboratory and Testing Center, DPLabs. A review appears in DEC PROFESSIONAL magazine. For index to reviews by issue, refer to page 14.



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■ CS/200
10 Supported Port(s) • 38.4Kbps • 802.3 Supported • 512KBytes
The CS/200 features a multiple 68000 processor architecture and is available with internal flexible disk drives for small networks.

■ CS/210
10 Supported Port(s) • 38.4Kbps • 802.3 Supported • 512KBytes
The CS/200 also supports four token ports in broadband networks and features distributed data switching and multivendor connectivity.

■ GS/3
8 Supported Port(s) • 64Kbps • 802.3 Supported

■ GS/300
4 Supported Port(s) • 19.2Kbps • 802.3 Supported
The GS/3 and 300 are equipped with intelligent Ethernet controllers, high-speed serial communication controllers, main processors, as well as 68000 processor architecture.

■ IVEC9
8 Supported Port(s) • 802.3 Supported • 1MBytes • $5,900
The IVEC9 eliminates the need for up to eight DMF-32 controllers and is equipped with 12MHz architecture and a VLSI Ethernet controller.

■ NCS/AT
802.3 Supported
The NCS/AT is a network control server with a multiple 68000 microprocessor architecture and is equipped with a VLSI Ethernet controller.

ABLE COMPUTER

■ LC3600
3600 Supported Port(s) • 19Mbps • HDLC Supported • $10,290
Supports up to eight server link modules, containing 32 links, supporting up to 3600 connections via Able's EASYway servers.

DILOG

■ CS2910
128 Supported Port(s) • 9600bps • T-1 Supported • $3,900
Occupies one slot in the MicroVAX backplane and connects terminals by multiplexing them onto a single T-1 composite line. It replaces as many as eight Q-bus communication controllers and uses existing twisted-pair wiring for links.

XYPLEX, INC.

■ MX3-16AX4500-Gy
5 Supported Port(s) • 1.544Mbps • 802.3 Supported • $3,995

■ MX3-16AX4500-T
5 Supported Port(s) • 1.544Mbps • 802.3 Supported • $3,995

■ MX3-16AX3000-E
16 Supported Port(s) • 1.544Mbps • 802.3 Supported • $9,995

■ MX3-16AX3000-T
16 Supported Port(s) • 1.544Mbps • 802.3 Supported • $9,995
The MX-MAX Series provide the foundation for creating high performance non-stop communication servers that integrate local and wide area network activity. Support XYPLEX System Software version 2.1.2.5 or later.

MODEMS

ABLE COMPUTER

■ MD 220
Fiber Optic Modem • 19Kbps • FDX/HDX Operating Mode • $1,250
This modem provides connection of Able's NC480 and NC8600 network nodes via fiber optic cable.

■ T1 MODEM MB198
T1 Modem • 1.544Mbps • FDX/HDX Operating Mode • $3,500
This modem provides connection of Able's EASYway networks to T1 lines. It accepts 1-1.5Mbps data stream, transmits it, and then identically reassembles it on the other end.

ASTRONAUTICS CORPORATION OF AMERICA

■ AC212
Acoustic Modem • 300bps • FDX/HDX Operating Mode • Async Transmission Type • 100 Bell Compatible • $199

AT&T PARADYNE CORPORATION

■ 3458
Leased Line Modem • 14.4Kbps • Async Transmission Type
A point-to-point leased line modem with fully integrated multiplexing, dial restoral and network management facilities. Features diagnostic control panel with two-line, 48-character menu driven display and keypad for user-defined configuration, remote message displays and complete diagnostic control of both local and remote modems.

■ 3470
Leased Line Modem • 19.2Kbps • Async Transmission Type
A point-to-point leased line modem with fully integrated multiplexing, dial restoral and network management facilities. Features diagnostic control panel with 2-line, 48-character menu driven display and keypad for user-defined configuration, remote message displays and complete diagnostic control of both local and remote modems.

■ 34x0
Leased Line Modem • 19.2Kbps • Async Transmission Type
The 34x0 features fully integrated Network Management System capabilities for comprehensive diagnostic monitoring, test and control. This model is a standalone modem.

■ 34x1
Leased Line Modem • 9600bps • Async Transmission Type
The 34x1 modems operate with a shared Auxiliary Diagnostic Control Panel and loadshare power supply system to accommodate high density point-to-point and multipoint applications.

■ 34x2
Leased Line Modem • 9600bps • Async Transmission Type
The 34x2 Series standalone modems feature, full menu of diagnostic facilities at the device and network levels for end-to-end network surveillance and control.

54 DEC PROFESSIONAL BUYERS GUIDE HARDWARE '89

"Power Listings" are expanded descriptions a
a particular company and its product or series of
products.

After locating a product of interest in the
comparison chart, find more specifics here to help
you make a final purchasing decision.



COMMUNICATION MACHINERY CORPORATION (CMC)

■ TransServer
4-10* Port(s) Supported
Interfaces terminal groups to an Ethernet LAN and may be configured to operate as a DCE or a DTE. Features multiple connection switching, user configurable options, on-line help, and power-up diagnostics.

COMPUTER PRODUCTS, INC.

■ GT360
$265
Parallel interface for general purpose input and output TTL-compatible data lines. Features a four level interrupt structure.

■ GT362
16 Port(s) Supported • $390
Parallel interface that features four handshake signals per port, 16 programmable vectors, a four level interrupt structure, and data ports that support byte write accesses.

■ GT370
16 Port(s) Supported • $650
DMA interface equipped with ports that contain various handshaking and control signals to enable one GT370 board to transceive data with another system or device.

DATABILITY SOFTWARE SYSTEMS, INC.

■ VCP-1000
8 Port(s) Supported
Part of the VISTA Series; provides four expansion slots that replace the operation of 16 DECserver 200s.

DATABILITY SOFTWARE SYSTEMS, INC.

VISTA

■ VCP-1000
128 Port(s) Supported • 38.4Kbps • O/E/N Parity • $3,499+
VISTA (VCP-1000) is a 100% LAT compatible terminal server that supports from one to 128 users in a single 5.25" high chassis at per port costs that are among the lowest in the industry. A slide-in Network Interface Card (NIC) contains all the hardware and software necessary to implement a particular industry standard network strategy. The LAT compatible NIC is 100%, compatible with the DECserver 290, including full support of NCP and TSM commands. Future NIC cards include TCP/IP, concurrent LAT/TCP, and DSI protocols. VISTA provides four expansion slots for VISTA line cards. Current line cards include 8-port RS232, 32-port RS423, eight on-board 2400B modems, and X.25.

■ VCP/LC-RS232-8
8 Port(s) Supported • 38.4Kbps
Part of the VISTA Series; provides four expansion slots that replace the operation of 16 DECserver 200s. Connects terminals, PCs, printers and modems to the VCP-1000.

■ VCP/LC-RS423-32
32 Port(s) Supported • 38.4Kbps
Part of the VISTA Series; provides four expansion slots that replace the operation of 16 DECserver 200s. Connects terminals, PCs, printers and modems to the VCP-1000.

■ VCP/MC-LAT
32 Port(s) Supported
Part of the VISTA Series; features an Intel 80185 processor and an Intel 2586 network coprocessor; it is a fully LAT compatible, transparent interface to a DEC Ethernet network.

EMULEX

■ PERFORMANCE 4000
32 Port(s) Supported • 38.4Kbps • O/E/N Parity • $3,995+
The Performance 4000 is fully compatible with DEC's LAT and plugs directly into the Ethernet Network without special hardware or software. It offers twice the performance and four times the line capacity for about half the cost per line as the DECserver 200.

ENCORE COMPUTER CORPORATION

■ ANNEX II
16 Port(s) Supported • 38.4Kbps

■ ANNEX II
32 Port(s) Supported • 38.4Kbps
The ANNEX II connects peripherals to CPUs supporting TCP/IP and Ethernet and features a watchdog timer and security system.

GEN/COMP, INC.

■ 2031
9600bps • O/E/N Parity • $525
The 2031 emulates the DEC DL11A and features switch selectable device address, interrupt vector, data format, and baud rates to 9600bps.

INTERLAN INC.

■ INTS/XNetVMS
32 Port(s) Supported • $3,325
Multiplexes 32 devices onto an Ethernet LAN. Combines the power of four asynchronous controllers on one intelligent board, and features an intelligent protocol processor architecture that provides a highperformance connection to a MicroVAX host.

■ INTS32/VMS
32 Port(s) Supported • $3,850
Multiplexes 32 devices onto an Ethernet LAN. Combines the power of four asynchronous controllers on one intelligent board, and features an intelligent protocol processor architecture that provides a high-performance connection to a VAX/VMS host.

■ INTS100
8 Port(s) Supported • 38.4Kbps • O/E/N Parity • $2,750
Uses virtual circuits that handle communications among a large group of heterogeneous RS232 devices including terminals, printers, plotters, and modems. Features a multilevel password system and is available with a TCP/IP software featurepack at $2,900.

■ INT8290 LAT/TCP
8 Port(s) Supported • $2,750
Supports up to 64 virtual circuits to allow multiple session support to DECnet or TCP/IP based hosts. Software cartridges that download both LAT and TCP/IP operating software across the network are available at $3,245.

MDB SYSTEMS, INC.

■ MDB-MMX-11
19.2Kbps • O/E/N Parity • $868
Incorporates all features of DECs DL11-A, -B, -C, -D, and DL11-E. Also features RS422 circuitry and a Printer Busy/Buffer Ready Monitor Circuit. LEDs indicate Transmit/Recieve Data and Printer Busy. Baud rate may be set by edge mounted Piano Switch without power down of system to remove board. FCC cable cabinet available.

■ MLSI-DLV11-EB
19.2Kbps • O/E/N Parity • $350
Compatible to DEC DLV11-E (DLV2J). Features LEDs to indicate transmit and receive activity and all modem signals. FCC cable cabinet kit available.

■ MLSI-DLV11-F
19.2Kbps • O/E/N Parity • $350
Module has Printer Busy/Buffer Ready Monitor Circuit. LEDs indicate Transmit/Receive Data and Printer Busy. Baud rate may be set by edge mounted Piano Switch without power down of system to remove board. FCC cable cabinet available.

■ MMX-T/R-32
32 Port(s) Supported • 38.4Kbps • $6,495
One quad size microprocessor board installs in Q-bus or UNIBUS backplane. Terminal server units connect to CPU board via RS422 signals. Includes adjustable input silo timer.

SIGMA INFORMATION SYSTEMS

■ SCD-BLV11E
1 Port(s) Supported • 19.2Kbps • O/E/N Parity • $353
Provides switch selectable device address and vector interrupt, word format, and baud rates.

■ SCD-DLV11J
4 Port(s) Supported • 38.4Kbps • O/E/N Parity • $319
Provides switch selectable device address and vector interrupt, word format, and baud rates. Supports multiple data protocols.

■ SCD-DLV11J/RS
8 Port(s) Supported • 19.2Kbps • O/E/N Parity • $657
Provides switch selectable device address and vector interrupt, word format, and baud rates.

SIMPACT ASSOCIATES, INC.

■ EXC 1012
12 Port(s) Supported
Expands the number of channels of Simpact's intelligent communication processors (ICP

SYSTEMS CONCEPTS, INC.

■ RX-30
38.4Kbps
The RX-30 allows remote terminals to appear to be directly connected to the host CPU. Options include connections to an Ethernet communications network as well as the TM-30 card which incorporates a group of 300/1200/2400bps baud modems into the RX-30.

■ TX-30
38.4Kbps
The TX-30 allows remote terminals to appear to be directly connected to the host CPU, through an Ethernet network. Options include the TM-30 card which incorporates a group of 300/1200/2400bps baud modems into the TX-30.

XYPLEX, INC.

■ MX-ASYNC-8
8 Port(s) Supported • 38.4Kbps
Designed for Xyplex's MAX5000 communication server and is compatible with XYPLEX System Software version 2.1E3 or later. It connects asynchronous terminals, personal computers, printers and modems to the MAX5000 and network users may access any device within the local and wide network geographies.

X.25 PAD PROCESSORS

CASE/DATATEL

■ PSX2500
4-64 Port(s) Supported
All activity is monitored and suspect conditions are alarmed. The operator can select from an array of diagnostic routines.

MICOM COMMUNICATIONS CORPORATION

■ MIC1
16 Device(s) Supported • Async Transmission Type • 1 Port(s) Supported • $1,840
Allows asynchronous devices to be connected to X.25 networks. Offers local switching to off-load the network and supports local or remote network management.

■ MIC3
22 Device(s) Supported • Async Transmission Type • 1/2 Port(s) Supported • $2,650
Allows asynchronous devices to be connected to X.25 networks. Supports network security, offers local switching to offload the network, and supports local or remote network management.

MICROTRONIX SYSTEMS, LTD.

■ CSI-X.25
Async Transmission Type
Converts asynchronous data from terminal equipment to the CCITT X.25 synchronous protocol. Interfaces into the public PSDN or private X.25 network at a rate of 70 packets per second. X.25 switching may be performed on the two links.

The **Manufacturers Index** lists companies alphabetically along with their addresses and telephone numbers. Many toll-free numbers are provided.

Many companies offer products in several categories. These are listed in bold type below telephone numbers, cross referenced to the chapters in which their products are listed.

INTERLINK COMPUTER SCIENCES, INC.
47370 Fremont Blvd.
Fremont, CA 94538-6501
415 657-9800
•Networking Interfaces

INTERLOGIC INDUSTRIES
85 Marcus Drive
Melville, NY 11747
516 420-8111
•Enclosures

INTERNATIONAL COMPUTER POWER
2620 N Lee Avenue
South El Monte, CA 91733
818 443-7557
•UPS Systems

INTERNATIONAL DATA SCIENCES, INC.
7 Wellington Road
Lincoln, RI 02865
401 333-6200 • 800 437-3282
•Monitoring & Test Devices

INTERNATIONAL DATA TECHNOLOGY
1551 NW 65th Avenue
Plantation, FL 33313
305 587-6823
•Memory Boards

INTERNATIONAL IMAGING SYSTEMS
1500 Buckeye Drive
Milpitas, CA 95035
408 262-4444
•Image Processors

INTERNATIONAL POWER MACHINES CORPORATION
2975 Miller Park N
Garland, TX 75042
214 272-8000 • 800 527-1208
•UPS Systems •Smart Ambient Monitors •Power Distribution Controllers

INTERNATIONAL SOFTWARE CORPORATION
528 Commons Drive
Golden, CO 80401
303 526-1500
•Graphics Controllers

INTERSCIENCE COMPUTER SERVICES
5171 Clareton Drive
Agoura Hills, CA 91301
818 707-2000
•Laser Printers •Band Printers •Dot Matrix Printers

INTERSTATE ELECTRONICS CORPORATION
1001 East Ball Road
P.O. Box 3117
Anaheim, CA 92803
714 758-0500
•Array Processors

INTRA COMPUTER INC.
875 Avenue of the Americas
New York, NY 10001
212 947-5533
•Smart Ambient Monitors

IOLINE CORPORATION
12020 113th Avenue #250
Kirkland, WA 98034
206 821-2140
•Pen Plotters

IPS TECHNOLOGY
11201 Richmond Avenue
Suite A102
Houston, TX 77082
713 870-0880
•Optical Subsystems •Tape Subsystems •Tape Controllers

ISA CONSULTANTS
5550 Touhy Avenue
Suite 204
Skokie, IL 60077
312 677-3530
•Monitoring & Test Devices

ISOREG CORPORATION
410 Great Road
Littleton, MA 01460
508 486-9483
•UPS Systems •Power Distribution Controllers •Power Conditioners

ITHACA PERIPHERALS, INC.
147 Main Street
Groton, NY 13073
607 898-9970
•Dot Matrix Printers

IVERSON, INC.
One Saunders Avenue
San Anselmo, CA 94960
415 459-5665
•Special Function Boards

J

JACK HADLEY DESIGN
4636 Devonshire Street
Boulder, CO 80301
303 530-7628
•Distributors & Resellers

JADTEC COMPUTER GROUP
546 W Katella Avenue
Orange, CA 92667
714 997-8927
•Distributors & Resellers •Maintenance •Services

JDL, INC.
2649 Townsgate Road #104
Westlake Village, CA 91361
805 495-3451
•Dot Matrix Printers

JENSEN TOOLS, INC.
7815 S 46th Street
Phoenix, AZ 85044
602 968-6241
•Supplies

JOHN FLUKE MANUFACTURING COMPANY, INC.
P.O. Box C9090
Everett, WA 98206
206 356-5425
•Monitoring & Test Devices

JORDAN ELECTRONICS
1590 N Batavia Street Suite 3
Orange, CA 92667
714 998-1810
•Distributors & Resellers

JUPITER SYSTEMS
1100 Marina Village
Alameda, CA 94501
415 523-9000
•Workstations

K

K&C TECHNOLOGIES, INC.
5075 Moorpark Avenue
San Jose, CA 95129
408 257-1445
•Monitoring & Test Devices

K-SYSTEMS OF TEXAS
11501 Rojas Drive Suite P
El Paso, TX 79936
915 598-9769
•Special Function Boards

K/REP SALES
2733 Shelter Island Suite 237
San Diego, CA 92106
619 457-9654
•Distributors & Resellers

KCS COMPUTER SERVICES
7462 Talbert Avenue
Huntington Beach, CA 92647
714 848-7971
•Maintenance

KEL-MAT/DAK
P. O. Box 17117
Pittsburgh, PA 15235
412 361-7400
•Distributors & Resellers

KENNEDY COMPANY
A Division of Shugart Corporation
9292 Jeronimo Road
Irvine, CA 92718
714 770-1100
•Tape Drives

KENTEK INFORMATION SYSTEMS
6 Pearl Court
Allendale, NJ 07401
201 825-8500
•Laser Printers

KIMBERLY ELECTRONICS
140 Route 17 N Street
Paramus, NJ 07652
800 843-4009 • 201 387-0872
•Distributors & Resellers

KIMTRON CORPORATION
1709 Junction Court Bldg. 380
San Jose, CA 95112-1090
800 828-8899 • 408 436-6550
•Display Terminals •Bar Code Readers

KINETICS, A DIVISION OF EXCELAN
2540 Camino Diablo
Walnut Creek, CA 94596
415 947-7000
•Ethernet Devices

KINETICSYSTEMS CORPORATION
11 Marykholl Drive
Lockport, IL 60441
815 838-0005
•Specialized Systems

KMW SYSTEMS CORPORATION
6034 West Courtyard Suite 100
Austin, TX 78730
512 338-3000
•Networking Interfaces

KOM, INC.
145 Spruce Street
Ottawa, Ontario, Canada K1R 6P1
613 238-7766
•Optical Subsystems •Disk Controllers

KYOCERA UNISON, INC.
3165 Adeline Street
P.O. Box 3056
Berkeley, CA 94703
415 848-6680
•Laser Printers

L

L.A. CABLE CONNECTION
340 W Regent Street Suite 4
Inglewood, CA 90301-1188
213 419-2900
•Distributors & Resellers •VARs

LAGO SYSTEMS
160-E Albright Way
Los Gatos, CA 95030
408 374-1818
•Disk Controllers

LAMCOM CORPORATION
112 W Canada
San Clemente, CA 92672
714 361-8895
•Distributors & Resellers •Services

LAN SYSTEMS, INC.
784 Ulloa Street
San Francisco, CA 94127
415 566-4786
•Multiplexers •Modems

LANMARK TELECOM, INC.
2624 Fayette Drive
Mountain View, CA 94040
415 941-4163
•Wiring Systems and Cables

LANPAR TECHNOLOGIES, INC.
35 Riviera Drive
Markham, Ontario,
Canada L3R 8N4
416 475-9123 • 800 387-4205
•Graphics Terminals •Display Terminals

LANTEK
2131 University Avenue #412
Berkeley, CA 94704
415 549-0928
•Communication Processors

LASER MAGNETIC STORAGE
4425 Arrows West Drive
Colorado Springs, CO 80907-3489
719 593-7900
•Optical Drives •Tape Drives

LASERDATA, INC.
10 Technology Drive
Lowell, MA 01851
508 937-5900
•Specialized Systems

LASERDRIVE
1101 Space Park Drive
Santa Clara, CA 95054
408 920-3600
•Optical Drives •Optical Subsystems

LASERGRAPHICS, INC.
17671 Cowan Avenue
Irvine, CA 92714
714 660 9497
•Thermal Transfer Printers

LDI TECHNOLOGIES
2368 Victory Parkway Suite 401
Cincinnati, OH 45206
513 281-4100
•Distributors & Resellers •Leasing/Rental

MANUFACTURERS INDEX

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Q Q-bus
U Unibus

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MRSX MicroRSX
UL Ultrix

MEMORY
D Dual-sized board
H Hex-sized board
Q Quad-sized board
XH Extended hex-sized board

OUTPUT DEVICES
A 8.5" x 11' page size
A0 33.11" x 46.81" page size
A1 23.25" x 33.11" page size
A2 16.54 x 23.35" page size
A3 11.69" x 16.54" page size
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C Continuous page
D 22" x 34" page size
E 34" x 44" page size
L Landscape
L Legal size paper
P Portrait orientation
R Rolled paper
S Single sheet paper

POWER DEVICES
S Single phase
T Three phase

INTERFACES
P Parallel interface
S Serial interface

NETWORKING
O/E/N Odd/even/no parity

DATA COMMUNICATIONS
N/W Node Networking node

MONITORS
A Amber
G Green
W White
RGB Red, green, blue

STORAGE
C CDC drive
K Kennedy drive
P Pertec drive

DP LAB SEALS

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- Memory Management
- Serial Line Unit
- Universal Boot ROM

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SYSTEMS

CPU SYSTEMS

Model	MIPS	Floating Point	Bandwidth	# of CPUs	# of Controllers	Max System Memory (Bytes)	Processor Cycle Time (ns)	Word Size (Bits)	Data Storage (Bytes)	Terminals Supported	Warranty	Price
Active Memory Technology 714 261-8901												
DAP 510		Y		1		32M	100				90 d	$120,000+
DAP 610		Y		1		128M	100				90 d	$320,000+
Adac Corporation 617 935-6668												
PX11/BASYS												$5,900+
Arix Corporation 408 922-8478												
ARIX 800		Y	12.5MHz	1-2	1	16M			6.6G	48		
ARIX 825		Y	25MHz	1-2	1	64M			6.6G	80		
ARIX 850		Y	25MHz	1-3	1				64M	128		
ARIX 875		Y	25MHz	1-3	1	64M			10.5G	128		
System 90-40		Y	25MHz			10.5G			160M	256		
System 90-80		Y	25MHz			10.5G			416M	512		
Convex Computer Corporation 214 952-0200												
C120		Y	80Mbps	1		1G	100	64		256		
C201-202		Y	290Mbps	1-2		2G	55	64		256		
C210		Y	200Mbps	1		2G	40	64		256		
C220		Y	400Mbps	2		2G	40	64		256		
C230		Y	600Mbps	3		2G	40	64		256		
C240		Y	800Mbps	4		2G	40	64		256		
Elxsi 408 942-0900												
6410	7-84	Y	320Mbps	1-12	1-8	2G	50	64	64K	1000	90 d	$140,000
6420	12-144	Y	320Mbps	1-12	1-8	2G	50	64	64K	1000	90 d	$145,000
6460	35-350	Y	320Mbps	1-10	1-8	2G		64	1M	1000	90 d	$295,000
Encore Computer Corporation 800 336-2673												
Multimax 310	4-20	Y	100Mbps	2-10	2-8	64M				16		
Multimax 320	4-40	Y	100Mbps	2-10	2-8	128M				32		
Multimax 510	17-170		48Mbps	2-10		160M				32		$159,000+
FPS Computing 800 635-0938												
M64/140		Y						64	120M			$300,000+
M64/30		Y		1		600M		64	128M			$99,000+
M64/40		Y						64	64M			$250,000+
M64/50		Y				600M		64	128M			$360,000+
M64/60		Y				600M		64	128M			$475,000+
Mentec Computer Systems, Ltd. 353-1-858444												
SBC M80		*				4M					1 yr	
SBC M90		*				4M					1 yr	
MIPS Computer Systems, Inc. 408 720-1700												
M/1000	10					80						$70,000+
M/120	13					48M						$30,000+
M/2000	20					128M						$110,000+
Multiflow Computers, Inc. 203 488-6090												
TRACE 7/100	41	Y	94Mbps	1		64M						
TRACE 7/200		Y				64M						$299,000+
Scientific Micro Systems, Inc. 415 964-5700												
SMS 1000-40		Y	625Kbps	1		4M						

CPU SYSTEMS

Model	MIPS	Floating Point	Bandwidth	# of CPUs	# of Controllers	Max System Memory (Bytes)	Processor Cycle Time (ns)	Word Size (Bits)	Data Storage (Bytes)	Terminals Supported	Warranty	Price
Scientific Micro Systems, Inc. 415 964-5700												
SMS 1000-50		Y	625Kbps	1		4M						
Unbound, Inc. 800 862-6863												
HVX 310											1 yr	$55,000+
HVX 320											1 yr	$55,000+
HVX 330											1 yr	$55,000+
HVX 340											1 yr	$55,000+
HVX Series 1-1											1 yr	$67,000+
HVX Series 1-2											1 yr	$67,000+
HVX Series 1-3											1 yr	$67,000+
HVX Series 1-4											1 yr	$67,000+
MicroVAX II QUBE						1.3G						$17,000+
QUBE 11/23						20-380M						$6,000+
QUBE 11/73						20M-1.3G						$9,000+
QUBE 11/83						20M-1.3G						$18,000+

CPU UPGRADES

Model	Current CPU	Upgraded CPU	Operating System	Supported Software	Memory Board Size (Bytes)	Disk Controller	Floating Point	Tape Controller	Supported Interfaces	Max System Capacity (Bytes)	# of Channels	Warranty	Price
MDB Systems, Inc. 714 998-6900													
CoPro						Y							$7,500
Nemonix, Inc. 800-435-8650													
NX780-CTU	11/780	11/780										L	
NX82-XL	8200	8200										L	
NX83-XL	8300	8300										L	
NX860-XL	8600	8600										L	
Nissho Electronics Corporation 714 261-8811													
N1100-PLUS		PDP 11				*				4M		1 yr	$11,500
Quickware Engineering Design, Inc. 800 237-1185													
QED 11/85	PDP-11	PDP-11				Y				4M		1 yr	$4,900
QED 11/90	PDP-11	PDP-11			4M	Y				4M		1 yr	$6,900

SPECIALIZED SYSTEMS

Model	Max System Capacity (Bytes)	Tape Drive Support	Disk Drive Support	Type of System	Terminal Support	Printer Support	Warranty	Price
Adac Corporation 617 935-6668								
1200 Series				Measurement & Control				$5,900+
DX11/BASYS	4M			Measurement & Control				$5,900+

SPECIALIZED SYSTEMS

Model	Max System Capacity (Bytes)	Tape Drive Support	Disk Drive Support	Type of System	Terminal Support	Printer Support	Warranty	Price
Adac Corporation 617 935-6668 (continued)								
PICOBASYS				Measurement & Control				$5,900+
PX11/BASYS	4M			Measurement & Control				$5,900+
Aptec Computer Systems, Inc. 503 626-9000								
IOC-200	80M	Y	Y	I/O System				$125,000+
IOC-24	200M	Y	Y	I/O System	Y			$35,000+
Biscom, Inc. 508 670-5521								
FAXCOM 1000+				Facsimile				
Codar Technology, Inc. 303 776-0472								
600M	32M	Y	4	Ruggedized Tactical	Y	Y	1 yr	
600MD	64M	Y	3	Ruggedized Tactical	Y	Y	1 yr	
Codex Corporation 617 364-2000								
4840	120M	Y	Y	Network Management	Y	Y	1 yr	$44,500
9800	155M	Y	Y	Network Management	Y	Y	1 yr	
Computer Products, Inc. 305 974-5500								
RTP				Data Acquisition & Control			1 yr	
Crisp Automation 614 764-4200								
I/ONYX				Data Acquisition & Control	Y			$3,000+
Cyberchron Corporation 301 946-6488								
C630-RO	16M	Y	Y	Ruggedized MicroVAX II/III	Y	Y	90 d	
C630-SE	16M	Y	Y	Ruggedized MicroVAX II	Y	Y	90 d	
C650-SE	16M	Y	Y	Ruggedized MicroVAX II/III	Y	Y	90 d	$50,000+
R8000-APA	64M	Y	Y	Ruggedized R8250/R8350	Y	Y	90 d	
R8000-DSA	3.2G	Y	Y	Ruggedized Disk Storage			90 d	
Dataram Corporation 609 799-0071								
Wide Word 2000	8-640M			Multiported Bus System			1 yr	$41,000+
FFT Systems, Ltd. 0703 760611								
SN-6000	32M	N	N	Computing Engine	N	N	1 yr	$20,000+
SNAP-SMS	1.5M	N	N	Multiport Shared Memory	N	N	1 yr	$15,000+
FPS Computing 800 635-0938								
P64/210	96M	Y	Y	Parallel I/O				$100,000+
GE Calma Company 408 434-4000								
DIMENSION/III				3-D Solid Modeling System				$27,000+
Prism/DDM				3-D Solid Modeling System				$27,000+
Gescan International, Inc. 800 982-2177								
GESCAN				Text Retrieval				
KineticSystems Corporation 815 838-0005								
2160				Data Acquisition & Control			2 yrs	$8,000+
2165				Data Acquisition & Control			2 yrs	$15,250
3000 Series				Data Acquisition & Control			2 yrs	$2,000
3100 Series				Data Acquisition & Control			2 yrs	$2,000
3300 Series				Data Acquisition & Control			2 yrs	$2,000
3400 Series				Data Acquisition & Control			2 yrs	$1,000+
3500 Series				Data Acquisition & Control			2 yrs	$4,000+
3600 Series				Data Acquisition & Control			2 yrs	$1,200+
3700 Series				Data Acquisition & Control			2 yrs	$1,025+
4000 Series				Data Acquisition & Control			2 yrs	$1,120+
Tachion-I	1.37G		Y	Data Acquisition & Control			2 yrs	$300,000+

SPECIALIZED SYSTEMS

Model	Max System Capacity (Bytes)	Tape Drive Support	Disk Drive Support	Type of System	Terminal Support	Printer Support	Warranty	Price
Laserdata, Inc. 508 937-5900								
LaserView Hostlink				Document Imaging System	Y		90 d	$89,900+
Logicraft, Inc. 603 880-0300								
386WARE	8M			MS-DOS Application Server	Y		90 d	$15,995
386WARE	4M			MS-DOS Application Server	Y		90 d	$9,995
HCP-11	768K			MS-DOS Application Server	Y		90 d	$1,895
LXE 404 447-4224								
210				RF Base Station	Y			
220				RF Base Station	Y			
280				RF Base Station	Y			
Microcom, Inc. 617 551-1000								
HDMS				Network Management				
Minolta Corporation 201 825-4000								
MinCAR		Y	Y	Computer Assisted Retrieval	Y	Y		$5,000+
Oasys 617 890-7889								
AP/10 VAX				Attached Processor				$7,000+
Opticomm Corporation 619 450-0143								
BUS-2000/RCV				Fiberoptic Bus Extender	Y		6 m	$3,150
BUS-2000/XMT				Fiberoptic Bus Extender	Y		6 m	$2,950
RGB-3000/RCV				Optical Fiber Link	Y		6 m	$2,950
RGB-3000/XMT				Optical Fiber Link	Y		6 m	$2,950
Paracom, Inc. 312 293-9500								
BBK-DR11	4M			Transputer			1 yr	
BBK-Q				Transputer			1 yr	
Rugged Digital Systems, Inc. 415 966-1770								
				Ruggedized CPU				
RWT Corporation 312 390-0200								
6000	64K			Factory Automation	Y	Y		$5,000+
SCI Systems, Inc. 205 882-4800								
C6000	256K			Data Acquisition & Control	Y	Y	1 yr	$3,000+
CDACS	64K			Data Acquisition & Control	N	N	1 yr	$1,500+
ELP	64K			Data Acquisition & Control			1 yr	$3,500+
SC-176	1M			Data Acquisition & Control	Y	Y	1 yr	$5,000+
Sequoia Systems, Inc. 508 480-0800								
200E	32M	Y	Y	Fault-tolerant Multiprocessor	Y	Y		$300,000+
Sophia Systems 800 824-9294								
SA 1000	64K		Y	Development & Emulator	Y			
SA 2000	64K		Y	Analyzer & Emulator	Y			$8,995
SA 700-M85	64K		Y	Development & Emulator	Y			
SA 700-Z80	64K		Y	Development & Emulator	Y			
SA 710-M	64K		Y	Analyzer & Emulator	Y			$9,990
System Dynamics Corporation 416 475-5155								
				Dynamic Non-fail System				$50,000+
Systems Concepts, Inc. 415 984-1000								
SA-11		Y	Y	Adaptor	Y	Y		
Telxon Corporation 800 321-2424								
PTC-620	192K			Portable Tele-Transaction		Y	30 d	$800+
PTC-701	512K			Portable Tele-Transaction		Y	30 d	$1,600+
PTC-750	1M			Portable Tele-Transaction		Y	30 d	$3,000+

SPECIALIZED SYSTEMS

Model	Max System Capacity (Bytes)	Tape Drive Support	Disk Drive Support	Type of System	Terminal Support	Printer Support	Warranty	Price
Teradata 213 827-8777								
DBC/1012	2T		Y	Relational Database Mgmt				$325,000+
Virtual Microsystems, Inc. 415 573-9596								
V-Server				MS-DOS Application Server				$12,500+
V-Server/Plus				MS-DOS Application Server				$13,500+
Vykor Technology, Inc. 805 964-3535								
IMAGEmate	8M		Y	Image & Data Comm System	Y			
TECHmate	8M		Y	Image & Data Comm System	Y			

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DESTA*
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DSRVS-CA
DEC Server 550*

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DECstation 316*
Intel 80386, 16MHZ

DECstation 320*
Intel 80386, 20MHZ

DSRVF-BA
DEC Server 300 *

VAXstation 3100*
Model 30 Standalone Workstation
Model 30 Networked Workstation
Model 40 Server/Workstation

DECstation 3100/3100S*
15″ Monochrome, 8MB Diskless
19″ Monochrome, 8MB Diskless
19″ Monochrome, 16MB Diskless
19″ Color, 8MB Diskless
19″ Color, 16MB Diskless
19″ Color, 16 MB Internal RZ23

Active Memory Technology

■ DAP 510
32MBytes • $120,000+
Transfers data between memory and processors at 1280Mbps, performs logic or Boolean operations at 10,000 million operations/sec., handles characters at 1,000 million operations/sec., and features 8-bit integer multiply at 400 million operations/sec.

■ DAP 610
128MBytes • $320,000+
Equipped with 4096 processors, each connected to its own local memory, ranging from 16-32MB. Parallel instructions are decoded, broadcast, and executed simultaneously.

Adac Corporation

■ PX11/BASYS
$5,900+
This system is equipped with 256KB PROM, 64KB RAM, and up to 512KB of battery-backed CMOS RAM. It supports eight serial lines, 1024 analog inputs, 128 analog outputs, and 2048 digital I/O.

Arix Corporation

■ ARIX 800
16MBytes • 12.5MHz • 1 Controller(s) Supported
Supports up to three external tape drives and eight external disk drives; equipped with one-to-two application processors, one-to-five communication processors and one-to-two database processors. Features up to 6GB of optical disk storage.

■ ARIX 825
64MBytes • 25MHz • 1 Controller(s) Supported
Equipped with one-to-two application processors and one-to-two database processors. Features up to 28GB of optical disk storage.

■ ARIX 850
25MHz • 1 Controller(s) Supported
Supports up to four external tape drives and eight external disk drives; equipped with one-to-three application processors, one-to-11 communication processors and one-to-four database processors. Features up to 28GB of optical disk storage.

■ ARIX 875
64MBytes • 25MHz • 1 Controller(s) Supported
Supports up to four external tape drives and eight external disk drives; equipped with one-to-three application processors, one-to-11 communication processors and one-to-four database processors. Features up to 28GB of optical disk storage. Also features a 1600/3200 bpi 9-track tape drive.

■ System 90-40
10.5GBytes • 25MHz
Equipped with one-to-four application processors, one-to-16 communication processors and one-to-eight database processors. Also features a 1600/3200 bpi 9-track tape drive.

■ System 90-80
10.5GBytes • 25MHz
Equipped with one-to-eight application processors, one-to-32 communication processors and one-to-16 database processors. Also features a 1600/3200 bpi 9-track tape drive.

Convex Computer Corporation

■ C120
1GByte • 80Mbps
Features fast turnaround on parallel jobs without sacrificing high throughput for other applications, large memory and fast input/output, a multiuser, multiapplication environment and CXwindows that provides users with a windowing system. Also features 50Mflops.

■ C201-202
2GBytes • 290Mbps
Features fast turnaround on parallel jobs without sacrificing high throughput for other applications, large memory and fast input/output, and multiuser, multiapplication capabilities. Also features 36-72Mflops.

■ C210
2GBytes • 200Mbps
Features fast turnaround on parallel jobs without sacrificing high throughput for other applications, large memory and fast input/output, and multiuser, multiapplication capabilities. Also features 50Mflops.

■ C220
2GBytes • 400Mbps
Features fast turnaround on parallel jobs without sacrificing high throughput for other applications, large memory and fast input/output, and multiuser, multiapplication capabilities. Also features 100Mflops.

■ C230
2GBytes • 600Mbps
Features fast turnaround on parallel jobs without sacrificing high throughput for other applications, large memory and fast input/output, and multiuser, multiapplication capabilities. Also features 150Mflops.

■ C240
2GBytes • 800Mbps
Features fast turnaround on parallel jobs without sacrificing high throughput for other applications, large memory and fast input/output, and multiuser, multiapplication capabilities. Also features 200Mflops.

Elxsi

■ 6410
7-84 MIPS • 2GBytes • 320Mbps • 1-8 Controller(s) Supported • $140,000

■ 6420
12-144 MIPS • 2GBytes • 320Mbps • 1-8 Controller(s) Supported • $145,000

■ 6460
35-350 MIPS • 2GBytes • 320Mbps • 1-8 Controller(s) Supported • $295,000
Designed to run under EMS which is highly compatible with VMS.

Encore Computer Corporation

■ Multimax 310
4-20 MIPS • 64MBytes • 100Mbps • 2-8 Controller(s) Supported
Features up to three Ethernet intelligent I/O channels per system, supports up to 500 total users, and 200+ active users, and provides up to 4.8GB of formatted disk storage.

■ Multimax 320
4-40 MIPS • 128MBytes • 100Mbps • 2-8 Controller(s) Supported
Features up to three Ethernet intelligent I/O channels per system, supports up to 1000 total users, and 400+ active users, and provides up to 7.8GB of formatted disk storage.

■ Multimax 510
17-170 MIPS • 160MBytes • 48Mbps • $159,000+
Supports up to 1000 total users, and 400+ active users, and provides up to 7.8GB of formatted disk storage.

FPS Computing

■ M64/140
$300,000+
The M64/140 attaches to DEC UNIBUS and BIbus architectures for performing intense problem solving and high precision floating point computations. It features from 11-to-187Mflops.

■ M64/30
600MBytes • $99,000+
Designed as a solution to computationally intense FORTRAN programs, providing 12Mflops and six million address computations per second. Available with the P64/30 disk subsystem which supports up to 24 drives at 1GB per drive, interfacing through an intelligent controller.

■ M64/40
$250,000+
The M64/40 is attached to DEC UNIBUS and BIbus architectures for performing intense problem solving and high precision floating point computations.

■ M64/50
600MBytes • $360,000+
Designed as a solution to computationally intense FORTRAN programs, 19Mflops and 19 million address computations per second. Available with a removable disk (P64/20), a mass storage subsystem (P64/110), and a disk subsystem (P64/40).

■ M64/60
600MBytes • $475,000+
Designed as a solution to computationally intense FORTRAN programs, providing 38Mflops and 19 million address computations per second. Available with a removable disk (P64/20), a mass storage subsystem (P64/110), and a disk subsystem (P64/40).

Mentec Computer Systems, Ltd.

■ SBC M80
4MBytes

■ SBC M90
4MBytes
The SBC M80 and M90 operate as the host processors on the Q-bus backplane with DEC's J-11 MPU for complete compatibility with PDP systems. Feature no wait state memories, block mode DMAs, and module configurations by set-up EEPROM which eliminate wire-wrapping.

MIPS Computer Systems, Inc.

■ M/1000
10 MIPS • 80Bytes • $70,000+
The M/1000 features 2GB of disk storage capacity and supports 5.25" SCSI disks and up to two Ethernet ports.

■ M/120
13 MIPS • 48MBytes • $30,000+
The M/120 features 4GB of disk storage capacity and supports 5.25" SCSI disks and one Ethernet port.

■ M/2000
20 MIPS • 128MBytes • $110,000+
The M/2000 features 15.7GB of disk storage capacity and supports 8" SCSI disks and up to four Ethernet ports.

Multiflow Computers, Inc.

■ TRACE 7/100
41 MIPS • 64MBytes • 94Mbps
Uses VLIW (Very Long Instruction Word) architecture which performs up to 215 million operations per second with 11Mflops.

■ TRACE 7/200
64MBytes • $299,000+
Uses VLIW (Very Long Instruction Word) architecture which performs up to 215 million operations per second with 6Mflops.

Scientific Micro Systems, Inc.

■ SMS 1000-40
4MBytes • 625Kbps
Includes an LSI-11, quad-wide, 22-bit Q-bus backplane with six useable slots and it features an 8KB memory cache, MSCP emulation, noninterleaved disk formatting, overlapped seeking, seek ordering, flaw mapping, and error correction.

■ SMS 1000-50
4MBytes • 625Kbps
Includes an LSI-11 quad-wide 22-bit Q-bus backplane with 12 useable slots. The first three slots are designated as C/D slots to accommodate the MicroVAX II. Features an 8KB memory cache, MSCP emulation, noninterleaved disk formatting, overlapped seeking, seek ordering, flaw mapping, and error correction.

Unbound, Inc.

■ HVX 310
$55,000+
HVX single cluster add-on system for VAX UNIBUS computers with 20MB shared memory, a 42" cabinet, HVX add-on software kit and documentation.

■ HVX 320
$55,000+
HVX dual cluster add-on system for VAX UNIBUS computers with 40MB shared memory, a 42" cabinet, HVX add-on software kit and documentation.

■ HVX 330
$55,000+
HVX triple cluster add-on system for VAX UNIBUS computers with 60MB shared memory, two 42" cabinets, HVX add-on software kit and documentation.

■ **HVX 340**
$55,000+
HVX quad cluster add-on system for VAX UNIBUS computers with 80MB shared memory, two 42" cabinets, HVX add-on software kit and documentation.

■ **HVX Series 1-1**
$67,000+
Single cluster system includes 20MB shared memory, a MicroVAX II with 16MB, 16 ports, a 1GB disk drive, a TK50 .5" tape drive, a 42" cabinet, an HVX system software kit, and documentation.

■ **HVX Series 1-2**
$67,000+
Dual cluster system includes 40MB shared memory, a MicroVAX II with 16MB, 16 ports, a 1GB disk drive, a TK50 .5" tape drive, a 42" cabinet, an HVX system software kit, and documentation.

■ **HVX Series 1-3**
$67,000+
Triple cluster system includes 60MB shared memory, a MicroVAX II with 16MB, 24 ports, a 2.4GB disk drive, a TK50 .5" tape drive, two 42" cabinets, an HVX system software kit, and documentation.

■ **HVX Series 1-4**
$67,000+
Quad cluster system includes 80MB shared memory, a MicroVAX III with 32MB, 32 ports, a 2.4GB disk drive, a TK50 .5" tape drive, two 42" cabinets, an HVX system software kit, and documentation.

■ **MicroVAX II QUBE**
1.3GBytes • $17,000+
Supports ESDI or SCSI based disk drives. Back-up options include an RX33 compatible flexible drive, a TK50 .25" tape drive, or an archival optical disk drive.

■ **QUBE 11/23**
20-380MBytes • $6,000+
Supports ST506, ESDI, or SCSI based disk drives. Back-up options include an RX33 compatible flexible drive, a 10MB removable disk, or one 150MB .25" tape drive.

■ **QUBE 11/73**
20M-1.3GBytes • $9,000+
Features high-performance, multiuser capability, and full compatibility with all PDP-11 sytems. Support ST506, ESDI, or SCSI disk drives. Backup options include an RX33 compatible flexible drive, a 10MB removable disk, and a 150MB .25" or TK50 .5" tape drive.

■ **QUBE 11/83**
20M-1.3GBytes • $18,000+
Based on DEC's PDP-11 Q-bus processor and provides users with an upgrade alternative for applications requiring increased CPU processing power. Supports ESDI peripherals with up to 650MB of disk storage.

CPU Upgrades

MDB Systems, Inc.

■ **CoPro**
$7,500
A $2,000 license to use the CoPro with a DEC operating system is required for each CoPro module. Designed to increase the MicroVAX II or LSI-11 performance by 1 MIPs for each module installed. Up to eight CoPros may be installed on a single bus.

Nemonix, Inc.

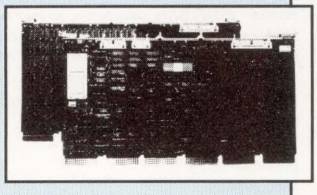
■ **NX780-CTU**
The NX780-CTU is a CPU upgrade for the VAX 11/780, designed to add up to 45% increased throughput in performance.

■ **NX82-XL**
The NX82-XL is a CPU upgrade designed to increase the performance of the VAX 8200 up to 25%. It is a single processor board upgrade.

■ **NX83-XL**
The NX83-XL is designed to increase the CPU performance of the VAX 8300 up to 25%. It is a dual processor board upgrade.

■ **NX860-XL**
This board gives a 38.7% increase in processing power to the VAX 8600, featuring full hardware and software compatibility with the 8600.

Nissho Electronics Corporation



■ **N1100-PLUS**
$11,500
The N1100-PLUS is an enhanced version of the N1100 and includes a memory capacity of 4MB, 8KB of cache, a floating point accelerator option and a memory management unit. The N1100-PLUS incorporates an Independent Memory Bus (IMB) which, combined with high-speed DRAM, provides any PDP-11/24/34 with PDP-11/84-type performance. The N1100-PLUS consists of two hex size UNIBUS boards and may be installed in any standard SPC slot without backplane changes. The processor operates on the 18-bit backplane and provides UNIBUS mapping to its own IMB.

Quickware Engineering Design, Inc.

■ **QED 11/85**
$4,900
Processor upgrade board triples the throughput of the DEC PDP-11/24 UNIBUS computer. No hardware or software changes are required. Gives VAX type speed for PDP-11/24 users.

■ **QED 11/90**
$6,900
Processor upgrade board triples the throughput of the DEC PDP-11/24 UNIBUS computer. No hardware or software changes are required. Gives VAX type speed for PDP-11/24 users.

Specialized Systems

ADAC Corporation

■ **1200 Series**
Measurement & Control • $5,900+
Accommodates a wide range of analog and digital I/O modules that plug into the Q-bus backplane.

■ **DX11/BASYS**
Measurement & Control • Provides a standalone data acquisition system or a remote satellite unit for a variety of hosts. • $5,900+
This system is equipped with 256KB PROM, 64KB RAM, and up to 512KB of battery-backed CMOS RAM. It supports eight serial lines, 1024 analog inputs, 128 analog outputs, and 2048 digital I/O.

■ **PICOBASYS**
Measurement & Control • Provides remote data acquisition system for a variety of hosts. • $5,900+
This system features PROM based software with nonvolatile RAM, event driven software and data transfer to Lotus 1-2-3 files.

■ **PX11/BASYS**
Measurement & Control • Provides a standalone data acquisition system or a remote satellite unit for a variety of hosts. • $5,900+
This system is equipped with 256KB PROM, 64KB RAM, and up to 512KB of battery-backed CMOS RAM. It supports eight serial lines, 1024 analog inputs, 128 analog outputs, and 2048 digital I/O.

Aptec Computer Systems, Inc.

■ **IOC-200**
I/O System • Tailors powerful systems for signal and image processing, simulation, and non-destructive testing applications. • $125,000+
The IOC-200 is a multiprocessor I/O computer system for high-performance real-time and supercomputer applications. It features an internal bandwidth of up to 200Mbps, and high speed memory, and it improves VAX overall performance as much as 40 times. High speed disk subsystems, 2MB and 8MB memory boards, and I/O processors are additional products designed for use with the IOC-200.

■ **IOC-24**
I/O System • Tailors powerful systems for signal and image processing, simulation, and non-destructive testing applications. • $35,000+
The IOC-24 is a multiprocessor I/O computer system designed for high-performance real-time and supercomputer applications of VAX/VMS CPUs. It features an internal bandwidth of up to 24Mbps, and high speed memory and it improves VAX overall performance by as much as 40 times. High speed disk subsystems, 1MB and 8MB memory boards, I/O processors, and a parallel interface are additional products designed for use with the IOC-24. Applications include high speed signal processing, image processing, and high speed data acquisition.

Biscom, Inc.

■ **FAXCOM 1000+**
Facsimile • Multiuser system that transmits data from the VAX to any Group III fax machine worldwide.
Stores standard business forms and merges them with data files for transmission in letter quality output.

Codar Technology, Inc.

■ **600M**
Ruggedized Tactical • Provides a custom tailored modular, fully integrated system for ruggedized military applications.
Available with a MicroVAX II (32MB), MicroVAX 3500 (32MB), VAX 8250 or 8350 CPU. Features include a shock mounted 14x4 backplane, .6" board spacing, digital temperature and voltage monitor, and helical isolators.

■ **600MD**
Ruggedized Tactical • Provides dual MicroVAX or MicroVAX 3000 CPUs in one ruggedized chassis.
Configuration allows for six Q-bus quad slots in support of one CPU, while the other CPU has eight slots available. It is MIL-STD-801D and 461B as well as NACSIM 5100A TEMPEST compliant. An optional internal Ethernet LAN is available.

Codex Corporation

■ **4840**
Network Management • Monitors, tests, and reconfigures complex data communication networks from central and/or remote sites. • $44,500
Comprised of multimicroprocessor based Distributed Network Processors (DNPs) that support simultaneous and continuous network support, and Network Control Terminals (NCTs) that serve as operator interfaces.

■ **9800**
Network Management • Provides graphic inventories of the performance data of Codex processors and I/O boards.
Based on the Common Management Information Protocols of the International Organization for Standardization (ISO). Includes management application software, laser printer, monitor, keyboard and mouse.

Computer Products, Inc.

■ **RTP**
Data Acquisition & Control
Computer independent data acquisition interface. Analog and digital input/output, thermocouple, and special function cards housed in an external 19" rack-mount chassis.

Crisp Automation

■ **I/ONYX**
Data Acquisition & Control • Provides reliable, uninterrupted performance in important functional aspects of process control and data management. • $3,000+
The I/ONYX offers total redundancy and single-loop integrity to maintain process status at the module level for critical control and maximum reliability. Each module utilizes a microprocessor for total distribution. NEMA 4 and NEMA 12 industrialized hardened cabinet packaging is available to accommodate standard process I/O signals.

CYBERCHRON CORPORATION

■ **C630-RO**

Ruggedized MicroVAX II/III • Military and severe environment applications.

Compact system designed to provide shock and vibration isolation, Tempest compliance, EMI/RFI suppression, extreme temperature operation, and system parameter monitoring. Wide range of configuration options.

■ **C630-SE**

Ruggedized MicroVAX II • Military and severe environment applications.

Standard model for the Army Micro Test Instrumentation System (Micro-TIS) program, providing Tempest compliance, shock and vibration isolation, extended temperature operation, and RFI/EMI suppression.

■ **C650-SE**

Ruggedized MicroVAX II/III • Military and severe environment applications. • $50,000+

RFI/EMI suppression and Tempest compliant. Features Intelligent System Controller (ISC) to monitor critical system operating parameters, and built-in-test (BIT/BITE) options.

■ **R8000-APA**

Ruggedized R8250/R8350 • Military and severe environment applications.

May be used as the CPU for a system that utilizes the Disk Storage Assembly (DSA) for mass storage support. Standard model for Army ASAS (All Source Analysis System) program.

■ **R8000-DSA**

Ruggedized Disk Storage • Provides ruggedized provisions for up to four removable 5.25" disk or tape devices and one fixed drive.

The DSA may be used as peripheral support for the R8000 Advanced Processor Assembly. Allows any removeable drive to be powered down and removed without interrupting the system or remaining drives.

DATARAM CORPORATION

■ **Wide Word 2000**

Multiported Bus System • Captures high speed data at rates up to 200Mbps, features DRAM memory, and performs high speed transfers to multiple peripheral devices. • $41,000+

The Wide Word 2000 supports eight ports. It interfaces to data acquisition systems, host processors, array processors, graphics systems, and high speed nonvolatile storage devices.

FFT SYSTEMS, LTD.

■ **SN-6000**

Computing Engine • Performs real-time or computationally intensive applications. • $20,000+

Processing engine that features floating point arithmetic capabilities, low data transfer overhead, and is fully programmable in FORTRAN, Assembler and is equipped with a set of scientific subroutines.

■ **SNAP-SMS**

Multiport Shared Memory • Provides a real transparent global memory between multiple computer systems.• $15,000+

High speed memory that may be accessed in the same way as normal memory and thus provides interprocessor communication without normal transfer overheads.

FPS COMPUTING

■ **P64/210**

Parallel I/O • Controls, collects and processes data. • $100,000+

The P64/210 is designed to be used with FPS Computing's M64 Series to configure the M64 Series with computer resources, including multiple array processors and high speed analog-to-digital converters.

GE CALMA COMPANY

■ **DIMENSION/III**

3-D Solid Modeling System • $27,000+

The DIMENSION/III is a fully integrated system designed for use in CAD, engineering, and manufacturing in the mechanical and A-E-C industries.

■ **Prism/DDM**

3-D Solid Modeling System • $27,000+

Fully integrated system designed for use in CAD, engineering, and manufacturing in the mechanical and A-E-C industries.

GESCAN INTERNATIONAL, INC.

■ **GESCAN**

Text Retrieval • Searches and retrieves text without indexing, translating, abstracting, or file inversion.

GESCAN systems provide full-text search without the use of an index. A hardware accelerator is utilized to eliminate indexing overhead and reduce CPU loads.

KINETICSYSTEMS CORPORATION

■ **2160**

Data Acquisition & Control • This CAMAC Serial Highway module is designed for high speed applications transmitting large blocks or time-critical data within the UNIBUS architecture. • $8,000+

The 2160 features high speed, multisite control, monitoring, and data acquisition.

■ **2165**

Data Acquisition & Control • This CAMAC Serial Highway module provides high speed, multisite control, monitoring, and data acquisition within UNIBUS and BIbus architectures. • $15,250

The 2165 interfaces to the VAX BIbus, mounts within the logic cage, and operates with 8000-serial VAX-class computers, under the VMS operating system. This system (1) supports up to 62 remote CAMAC crate housings at serial rates to 5Mbps and (2) allows multiple Dataway operations within one Serial Highway message with a maximum sequential data transfer rate of <1.7Mbps.

■ **3000 Series**

Data Acquisition & Control • This series of CAMAC digital output modules provide control of a number of output points within the UNIBUS architecture. • $2,000

The 3000 Series is also available with options including transistors, triacs, relay contacts, and isolation.

■ **3100 Series**

Data Acquisition & Control • This series of CAMAC analog output modules provides one or more precision voltage and current loop outputs for analog control and monitoring within UNIBUS and BIbus architectures. • $2,000

The 3100 Series includes modules with a variety of D/A converters, 4-20mA output drivers, and power supply controllers.

■ **3300 Series**

Data Acquisition & Control • This series of CAMAC output controllers interface to external devices and systems with efficient two-way communication within UNIBUS and BIbus architectures. • $2,000

The 3300 Series includes communication interfaces, dual pulse generators, stepping motor controllers, IEEE-488 interfaces, and digital/synchro converters.

■ **3400 Series**

Data Acquisition & Control • This series of CAMAC digital input modules monitors status input points within UNIBUS and BIbus architectures. • $1,000+

The 3400 Series includes options such as AC or DC voltages, optical isolation, change-of-state detection, strobed input, pulse outputs, manual input gates, or discrete input.

■ **3500 Series**

Data Acquisition & Control • This series of CAMAC analog input modules monitors analog parameters with UNIBUS and BIbus architectures. • $4,000+

The 3500 Series includes multiplexers, signal conditioners, and different types of single and multichannel A/D modules. Other features include scanning, autoranging, solid-state and relay MUX, and RTD and isolated inputs.

■ **3600 Series**

Data Acquisition & Control • This series of CAMAC countered provides timing or pulse trains for controlling or sequencing processes within UNIBUS and BIbus architectures. • $1,200+

The 3600 Series is available with low or high levels, variable rates, cyclic operation, and interrupt modes. This series is also able to preset count and to directly measure frequency.

■ **3700 Series**

Data Acquisition & Control • This series of CAMAC process interfaces is used for general and specific process control applications within UNIBUS and BIbus architectures. • $1,025+

The 3700 Series controls feedback loop measurement, watchdog timing, power monitoring, and machine tool diagnostics. Additional features include isolated and opto-isolated digital input, sampling, totalizing, interrupts and alarming.

■ **4000 Series**

Data Acquisition & Control • This series of CAMAC waveform digitizers provides high speed sampling, precise digitizing, and dynamic accuracy within UNIBUS and BIbus architectures. • $1,120+

The 4000 Series ranges from a self-contained two-channel transient recorder with on-board memory, to a 32- or 64-channel recording data logger set. The series features 12-bit resolution, simultaneous sampling, a sample rate to 250 kilo-samples per second, and an expandable number of input channels.

■ **Tachion-I**

Data Acquisition & Control • Designed specifically for large transient recording applications that need immediate access to high-speed real-time data. • $300,000+

Uses Parallel Transfer Disk (PTD) technology and includes up to eight CAMAC crates that are interfaced to a high-speed differential bus providing a direct path from the CAMAC dataway to the PTD controller.

LASERDATA, INC.

■ **LaserView Hostlink**

Document Imaging System • A PC-based document image management system running under DECnet and VAX/VMS. • $89,900+

Modular, open architecture that converts large volumes of paper documents into electronic images which are then stored on optical disks and recalled using standard database methods.

LOGICRAFT, INC.

■ **386WARE PLUS**

MS-DOS Application Server • DOS server workstation capable of running MS-DOS software on eight VTxxx terminals. • $15,995

The 386WARE is an 80386 DOS server workstation that includes MS-DOS 3.2 software, Logicraft utilities, IBM PC emulation, graphics drivers that enable VT terminals to run static PC graphics, and the IBM PC driver which gives the PCs access to 386WARE without reassigning the function keys, keycaps, and templates.

■ **386WARE**

MS-DOS Application Server • DOS Server workstation capable of running MS-DOS software on up to four VTxxx terminals. • $9,995

The 386WARE is an 80386 server workstation that includes MS-DOS 3.2 software, Logicraft utilities, IBM PC emulation, graphics drivers that enable VT terminals to run static PC graphics, and the IBM PC driver which gives the PCs access to 386WARE without reassigning the function keys, keycaps, and templates.

■ **HCP-11**

MS-DOS Application Server • Allows any DEC terminal to run MS-DOS software. • $1,895

The HCP-11 (Cardware) includes the VT240 driver to support static PC graphics, an IBM PC driver which gives IBM PCs access to Cardware without reassigning function keys, keycaps, and templates. The cost for three users is $2,995.

LXE

■ **210**

RF Base Station • Wireless data collection network that consists of terminals that communicate with a host database by radio frequency.

Combines a Computer Interface Unit (CIU) and a Radio Frequency Unit (RFU) into one unit for single RF channel communication with PDP-11, MicroVAX, and VAX host CPUs. Supports up to 64 terminals.

■ **220**

RF Base Station • Wireless data collection network that consists of terminals that communicate with a host database by radio frequency.

Two units consisting of a CIU which is hard-wired to the host and an RFU which may be located thousands of feet away. Supports up to 64 terminals.

■ **280**

RF Base Station • Wireless data collection network that consists of terminals that communicate with a host database by radio frequency.

Networking device that controls complex RF systems in large warehouses and multi-

building facilities. May be simultaneously linked to multiple and different hosts. Supports up to 320 terminals.

Microcom, Inc.

■ **HDMS**

Network Management • Provides statistics, call-back security, modem control and diagnostics of multiple modems in a single chassis.

An Intelligent Network Controller (INC) option maintains traffic statistics and network management and control for up to 192 high-performance modems.

Minolta Corporation

■ **MinCAR**

Computer Assisted Retrieval • Allows data entry of documents into a computer for storage of these indices and the automatic retrieval of the microfilmed documents utilizing any of the plain paper reader-printers available from Minolta. • $5,000+

The MinCAR was designed for the 11/730, 750, 780, and 8600 CPUs. It incorporates Minolta reader-printers and the Micro Auto 16 planetary recorder with special MinCAR software.

Oasys

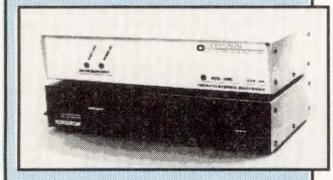
■ **AP/10 VAX**

Attached Processor • Offloads VAX and runs all OASYS development tools. • $7,000+

The AP/10 is a UNIBUS compatible attached processor designed for VMS, Ultrix and 4.2 UNIX machines. It features resident compilers and offloads the CPU from intensive jobs such as CAE, "nroff" and "troff" simulations.

Opticomm Corporation

OPTICOMM
OPTICAL FIBER NETWORK SYSTEMS



■ **BUS-2000/XMT**

Fiberoptic Bus Extender • Transmits high speed data and performs interrupt I/O which integrates with DMA DEC operation systems. It extends graphic controllers up to 2Km (6,600 feet). • $2,950

The Bus Extender is the latest in design technique to remote multiple interfaces such as: DR11-B, DR11-W, DRV11-B, DRV11-W by DEC VAX and PDP-11, families host computer DACU by IBM and 4100F3A/Q interface raster by Tektronix. Features include (1) the capability to extend graphics controllers up to 2.0km (6,600 feet), (2) full programmed interrupt I/O and DMA high speed communications, (3) interface support to DEC UNIBUS, Q-bus and IBM DACU, (4) plug compatibility with DEC DR11-B/W, DRV11-B/W and Tektronix 4100F3A/Q, (5) synchronous data rates up to 500K word/sec., (6) parallel-to-serial digital-optical conversion, (7) an executive RS232 port for remote system configuration and diagnostics, and (8) carrier stability that is immune to noise EMI/RFI, hum, light, sparks, and intrusion.

■ **BUS-2000/RCV**

Fiberoptic Bus Extender • Receives highspeed data up to 12.5Mps for remoting graphics controllers and devices. • $3,150

The Bus-2000 may be used in conjunction with OPTICOMM RGB-3000 series of fiberoptic RGB video high-resolution and data links. This flexible combination enables remoting multiple workstations up to 5.0KM (16,500 feet). No software changes are required.

■ **RGB-3000/XMT**

Optical Fiber Link • Transmits ultra high-resolution RGB (1280x1024) computer generated video signals and bidirectional data. • $2,950

The RGB3000/XMT supports one remote RGB workstation or three monochrome video display terminals at distances up to 10,000 feet from the graphics controller. Also operates full duplex asynchronous data transmission mode with data rates up to 56Kbps.

■ **RGB-3000/RCV**

Optical Fiber Link • Receives ultra high-resolution RGB (1280x1024) computer generated video signals and bidirectional data. • $2,950

The RGB-3000/RCV fiber optic model receives computer generated video signals up to 100MHz (RS170, RS170A, and RS343A). Units are equipped with AGC and DC base line restoration.

Paracom, Inc.

■ **BBK-DR11**

Transputer • DR11 interface to transputer processing structure.

BBK-DR11 is a processor board with one T222 and a 4Mbps transfer rate for bidirectional DR11W interface.

■ **BBK-Q**

Transputer • Q-bus interface to transputer processing structure.

High speed bridge between Q-bus and external boards on systems featuring a DMA controler that interfaces to the Q-bus via four C012 link adapter chips.

Rugged Digital Systems, Inc.

■ **Ruggedized CPU**

Ruggedized VAX 11/750, 780, 785, 8530, 8550, and VAXstation 2000 CPUs are available for use on all types of military platforms, including trucks, vans, surface ships, submarines, helicopters, and fixed wing aircraft.

RWT Corporation

■ **6000**

Factory Automation • Manages the flow of information to and from the factory floor. • $5,000+

Provides bidirectional management network between the host CPU and NC (numerical control) shop floor machines. Available with three operator consoles that upload, download or store NS programs.

SCI Systems, Inc.

■ **C6000**

Data Acquisition & Control • Allows downloadable control strategies from the master station or local units to execute commands based on information received from field devices, without input from the master station. • $3,000+

Features a dedicated processor and memory on each board that enables the unit to be used in standalone mode. Single and redundant PID controller modes are also available. Configured in modular design and low consumption allows battery back-up of the entire unit and/or operation from solar arrays. Available board types include: a site controller, a combo module, a discrete input module, a discrete output module, an analog I/O module and a combo/PID controller.

■ **CDACS**

Data Acquisition & Control • As an intelligent Remote Terminal Unit (RTU), the CDACS is well suited for small I/O counts. • $1,500+

The base system features an 80C85 processor, two communication ports, and eight discrete inputs (DIs). Optional expansion capabilities include 40 additional DIs, 16 discrete outputs (DOs), 16 analog inputs (AIs), four analog outputs (AOs), and a communication controller for special protocols.

■ **ELP**

Data Acquisition & Control • $3,500+

The ELP features an 80C85 processor and a series of 5"x7" input/output modules mounted in 11, 15, or 19 slot cages. I/O terminal strips, connected by ribbon cables, terminate customer installed wiring to instrumentation.

■ **SC-176**

Data Acquisition & Control • Large, high-performance Remote Terminal Unit that performs high speed, repetitive flow calculations and closed control loop applications. • $5,000+

Features an 8088 processor and consists of various modules assembled into 7"x9" printed circuit cards. These modules are mounted in card cages, each housing up to 20 cards. Any I/O module may occupy any slot. Additional card cages are provided if necessary. Optional features include an 8087 coprocessor up to 1MB of memory and a display/keyboard MMI.

Sequoia Systems, Inc.

■ **200E**

Fault-tolerant Multiprocessor • Used in on-line transaction processing (OLTP) applications. • $300,000+

Sophia Systems

■ **SA 1000**

Development & Emulator • Provides system integration and debugging for software development.

■ **SA 2000**

Analyzer & Emulator • Provides system analysis and in-circuit emulation for 8-bit microprocessor development. • $8,995

■ **SA 700-M85**

Development & Emulator • Provides system integration and debugging for software development.

Ideal for troubleshooting complex systems and offers true standalone debugging. It is able to up/download files from the CPU, provides VT100 emulation with the standard CRT, is equipped with two 5.25" flexible disk drives as well as an ASCII keyboard. It was designed for the 11/750 and 780 CPUs.

■ **SA 700-Z80**

Development & Emulator • Provides system integration and debugging for software development.

The SA 700-Z80 is ideal for troubleshooting complex systems and offers true standalone debugging. It is equipped with an 8" flexible disk drive as well as an ASCII keyboard.

■ **SA 710-M**

Analyzer & Emulator • Provides system analysis and in-curcuit emulation for 16-bit microprocessor development. • $9,990

Ideal for troubleshooting complex systems and offers true standalone debugging. It is equipped with an 8" flexible disk drive as well as an ASCII keyboard. Also equipped with 256KB of DRAM.

System Dynamics Corporation

■ **Dynamic Non-Fail System • Provides failure-free operation. • $50,000+**

This model is a fault-tolerant computer system using multiple VAX processors and multiple databases.

Systems Concepts, Inc.

■ **SA-11**

Adaptor • Simulates an IBM selector or block multiplexer channel, and adapts IBM-compatible peripheral control units to the UNIBUS architecture.

Features command chaining and data chaining facilities and is equipped with 128Bytes of internal buffering to reduce data transfer overruns and UNIBUS priority contention.

Telxon Corporation

■ **PTC-620**

Portable Tele-Transaction • Collects data for inventory management. • $800+

Hand-held unit designed for simple applications requiring accurate, high speed wanding over long periods of time. Data is entered via a 35-key alphanumeric keyboard, and the unit features a snap-on reversible scan head, and a built-in communication port.

■ **PTC-701**

Portable Tele-Transaction • Collects data for inventory management. • $1,600+

Designed for sophisticated business and industrial applications including point-of-sale, retail price verification, inventory control, field service, and meter reading. Data is entered via a 45-key alphanumeric keyboard, pencil wand or laser scanner, and the unit features an internal modem and a built-in communication port.

■ **PTC-750**

Portable Tele-Transaction • Collects data for inventory management. • $3,000+

Real-time, radio-linked (9600 bps) computer used for data entry via a 50-key keyboard, pencil wand or laser scanner. Application programs are stored within the EPROM capsules. Used to complement up to 30 PTC-750 units, controlling communication and providing an interface to the host.

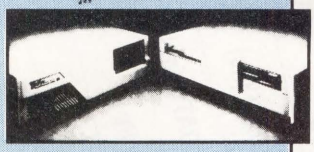
Teradata

■ **DBC/1012**

Relational Database Mgmt • Fault tolerant system optimized for relational database management. Large scale parallel processing for commercial MIS market. • $325,000+

Manages large relational databases from multiple, disparate mainframes, departmental systems and workstations. Permits "host" computers to share the same, single image of data concurrently.

VIRTUAL MICROSYSTEMS, INC.



■ **V-Server**

MS-DOS Application Server • Allows VAX/VMS users access to MS-DOS applications from VTxxx terminals. • $12,500+

Virtual Microsytems' V-Server is a DECnet-based, MS-DOS application server for companies with VAX computers and workstations that gives users the ability to run standard PC applications directly from VT terminals or VAXstations. Each V-Server system consists of up to eight independent, board-level V-Server client processors, an 80286- or 80386-based host processor, a DEPCA card, a serial communication port, a 1.2MB floppy disk drive, a 12-slot PC/AT backplane, and an independent power supply. Each V-Server client processor, or cell, contains a 12MHz Intel 80286 processor with "0" wait states and a minimum of 1MB RAM, upgradeable to 2MB or 4MB. V-Servers may be configured in a PC/AT-style enclosure or a tower pedestal-style enclosure. Prices range from $12,500 for a four-user system to $21,500 for an eight-user system.

■ **V-Server/Plus**

MS-DOS Application Server • Allows VAX/VMS users access to standard MS-DOS applications including applications that require PC add-in cards from VTxxx terminals. • $13,500+

The V-Server/Plus is an enhanced version of the V-Server that enables VAX/VMS users to run standard PC application programs such as Lotus 1-2-3, dBase, Wordstar, and hundreds of others, plus applications that require PC/AT-compatible add-in cards, such as facsimile, PC LANs, modems and CD-ROM. V-Server/Plus features an eight-slot proprietary backplane and may accommodate up to four PC add-in cards. Four, six, and seven user V-Server/Plus configurations are available. A V-Server/Plus four user system with four add-in slots lists for $13,500.

VYKOR TECHNOLOGY, INC.

■ **IMAGEmate**

Image & Data Comm System • Connects VAX & MicroVAX systems over DECNET or TCP/IP.

The IMAGEmate is an 80386-25 based system rated at 5.4 MIPS that allows each image stored to be indexed as a database field. Features compression or expansion for maximum efficiency, a video memory buffer, and an AUTOcad interface.

■ **TECHmate**

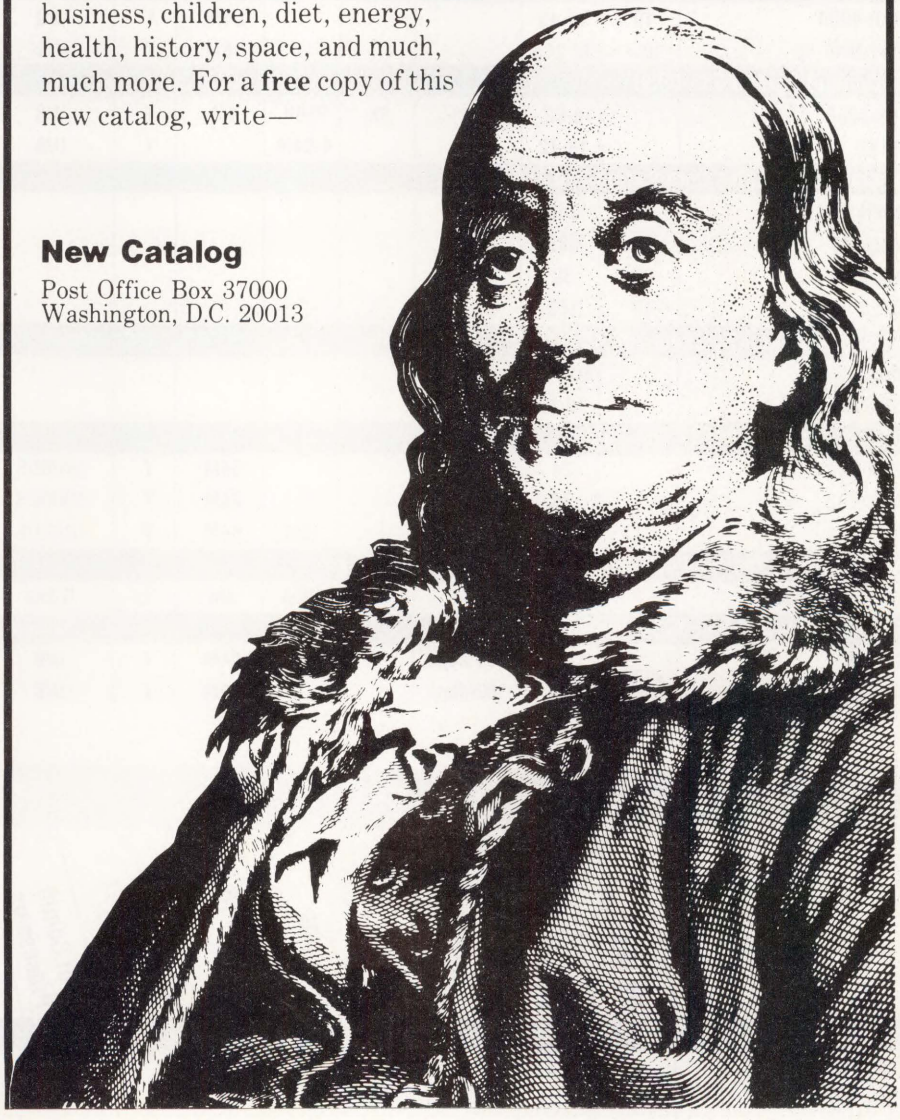
Image & Data Comm System • Connects VAX & MicroVAX systems over DECNET or TCP/IP.

The TECHmate is an 80386-25 based system rated at 5.4 MIPS that integrates PC's and VAX systems. Features a built-in Ethernet card and allows a number of TECHmates to work in multivendor environments.

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PROCESSORS

ARRAY PROCESSORS

Model	MIPS	MFLOPS	Bandwidth	RAM (Bytes)	DRAM (Bytes)	Max System Capacity (Bytes)	DMA Interface	Supported Bus Interface	ECC/EDC	Read DATI (ns)	Write DATO (ns)	Warranty	Price
Analogic Corporation 508 977-3000													
AP400						192K		UNIBUS					$8,950+
AP421								UNIBUS					$11,500+
AP464								UNIBUS					$11,500+
AP471								UNIBUS					$8,950+
AP474								UNIBUS					$8,950+
AP500						4M		UNIBUS					$25,000+
AP501								UNIBUS					$25,000+
CSPI 617 272-6020													
MAP-4000	10	20-40				64M	Y	U/Q					$18,995
Mini-MAP XL	10.7	38-280				16M	Y	U/Q					$30,000+
FPS Computing 800 635-0938													
FPS 5000		8-62		8K	256K	4M	Y	U/B				90 d	$45,000+
MP32		18-72			4-64M		Y	U/B				90 d	$57,000+
Interstate Electronics Corporation 714 758-0500													
QUEN 12	40	240											$125,600
QUEN 16	40	320											$159,600
QUEN 4	40	80											$55,200
QUEN 8	40	160											$90,600
Mercury Computer Systems 508 458-3100													
MegaZIP		20-100											
ZIP 3232		10/20											
Numerix Corporation 617 964-2500													
NMX-332		24				64M	Y	UNIBUS					$56,000+
NMX-432		30				64M	Y	UNIBUS	Y/Y	100	100		$82,000+
NMX-464		12-24			16M	64M	Y	UNIBUS	Y/Y				$66,500+
Sky Computers, Inc. 508 454-6200													
SkyWarrior Q/20		20			256K	8M	Y	Q-bus				90 d	$10,900
Star Technologies, Inc. 703 689-4400													
ST-100		100	100Mbps			64M	Y	U/B	Y/Y	40	40	90 d	$265,000+
VP Series		50	100Mbps			64M	Y	U/B	Y/Y	80	80	90 d	$85,000+

DATABASE PROCESSORS

Model	On-line Back-up	Tape Back-up	Non-stop Disk Remirroring	Disk Mirroring	Memory Capacity (Bytes)	Operating System	# of Comm. Processors	# of Supported Users	Supported Interfaces	Performance Timing	Warranty	Price
Accel Technologies, Inc. 619 695-2000												
DBA 1030									2RS232			$25,600
DBA 1050									2RS232			$33,300
ESM 100-1					108M				2RS232			$7,900

DATABASE PROCESSORS

Model	On-line Back-up	Tape Back-up	Non-stop Disk Remirroring	Disk Mirroring	Memory Capacity (Bytes)	Operating System	# of Comm. Processors	# of Supported Users	Supported Interfaces	Performance Timing	Warranty	Price
Accel Technologies, Inc. 619 695-2000 (continued)												
ESM 100-2					108M				2RS232			$3,500
Computer Design & Applications, Inc. 617 647-1900												
MSP-3000												$19,900+
Share Base (Britton Lee) 408 378-7000												
Server/300-25	Y	Y	Y	N	4M	VMS	4	5-100	TCP/IP	Y	90 d	$25,000+
Server/700-240	Y	Y	Y	Y	6M	VMS	4	100+	TCP/IP	Y	90 d	$130,000+
Server/8000-350	Y	Y	Y	Y	32M	VMS	6	600+	TCP/IP	Y	90 d	$265,000+
Server/8000-450	Y	Y	Y	Y	1-256M	VMS	12	1000+	TCP/IP	Y	90 d	$370,000+
Teradata 213 827-8777												
DBC/1012					2T							

IMAGE PROCESSORS

Model	Monitor Size	Color/ Monochrome	Resolution (dpi)	Zoom	Pan	Scroll	Memory Capacity (Bytes)	On-board Processor	Gray Scale	# of Bits	Inputs/Outputs	Warranty	Price
Data Translation, Inc. 508 481-3700													
DT2651		C/M	512x512	N	N	N	.5M	Y	256	8	4/3		$2,995
DT2658		C/M	512x512	Y	Y	Y	.5M	Y	256	16	4/3		$1,995
Datacopy Corporation 800 556-1234													
GP11		M											$3,995
Datacube, Inc. 508 535-6644													
QVG/AFA-423		M	768x2048	Y	Y	Y	1536K						
DeRex, Inc. 305 753-0840													
Champion II			400x400				5-32M						$5,595
Digital Instruments Corporation 800 222-IMAX													
IMAX		C/M	512x512	Y	Y	Y			256	8		1 yr	$7,200
Gould, Inc. 415 498-3200													
FD5000	9-19"	C	512x512										$10,500+
IP8400	9-19"	C	512x512										$35,000+
IP8500	19"	C	512x512										$40,000+
IP9000	19"	C	1280x1024										
International Imaging Systems 408 262-4444													
12S													
75	19"	C	512x512										$25,000+
Matrox Electronic Systems 514 685-2630													
QG-1280A		C	1280x1024					Y					
QG-640		C	640x640					Y					
Perceptics Corporation 615 966-9200													
9200		C	4096x4096				32M						
Peritek Corporation 415 531-6500													
VCK-Q/U	15/19"	C	1024x1024	Y	Y	Y	2.5M	Y	Y	8	SCSI	6 m	$4,485
VCL-Q	15/19"	C	1280x1024	Y	Y	Y	3.5M		Y	8	SCSI	6 m	

IMAGE PROCESSORS

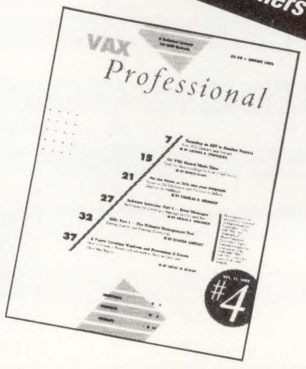
Model	Monitor Size	Color/ Monochrome	Resolution (dpi)	Zoom	Pan	Scroll	Memory Capacity (Bytes)	On-board Processor	Gray Scale	# of Bits	Inputs/Outputs	Warranty	Price
Recognition Concepts, Inc. 702 831-0473													
Trapix PLUS	19"	C/M	1024x1024				64M					1 yr	$30,000+
Universal Computing 619 576-0592													
UC3000	19"	C	1024x1024	Y	Y	Y	2M	Y		8	RGB	90 d	$10,000
Universal Computing 619 576-0592													
UC3000	19"	C	1024x1024	Y	Y	Y	2M	Y		8	RGB	90 d	$10,000
Vicom Systems, Inc. 408 946-5660													
Digital Processor	13-19"	C	1024x1024										$30,000+

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Array Processors

Analogic Corporation

■ **AP400**
$8,950+

■ **AP421**
$11,500+
The AP421 is a 24-bit block floating-point array processor packaged in a 5.25" ruggedized rack mountable chassis.

■ **AP464**
$11,500+
The AP464 is a 24-bit block floating-point array processor with 64K words of half speed, dynamic RAM packaged in a 5.25" chassis.

■ **AP471**
$8,950+
The AP471 is a 24-bit block floating-point array processor packaged in a DEC form factor card set.

■ **AP474**
$8,950+
The AP474 is a 24-bit block floating-point array processor with 64K words of half speed, dynamic RAM memory packaged as a DEC form factor card set.

■ **AP500**
$25,000+

■ **AP501**
$25,000+
The AP501 is a 32-bit full floating-point array processor suitable for intensive mathematical operations, packaged in a ruggedized 5.25" chassis.

CSPI

■ **MAP-4000**
$18,995
Through the use of a functionally parallel architecture, this array processor speeds up scalar and vector code and digital signal and image processing, and mathematical and financial modeling.

■ **Mini-MAP XL**
$30,000+
The MiniMap is a 32-bit array processor for high speed, floating-point computation. It is used for signal processing and image processing applications on UNIBUS, Q-bus, and BIbus to UNIBUS computer systems.

FPS Computing

■ **FPS 5000**
$45,000+
The FPS 5000 features performance ranges from eight-to-62Mflops with the addition of up to three computational processors. Full software development tools, including a FORTRAN compiler, are available.

■ **MP32**
$57,000+
The MP32 is equipped with up to four computational processors for offloading and performing computationally intense applications. Performance ranges from 18-72Mflops and full software development tools, including a FORTRAN compiler, are available.

Interstate Electronics Corporation

■ **QUEN 12**
$125,600
Processor elements have simultaneous control, computation, and multidirectional communication capability. Processing elements are linked via asynchronous dual-port memories which have built-in processor communication control flags. This eliminates the need for switching networks.

■ **QUEN 16**
$159,600
Processor elements have simultaneous control, computation, and multidirectional communication capability. Processing elements are linked via asynchronous dual-port memories which have built-in processor communication control flags. This eliminates the need for switching networks.

■ **QUEN 4**
$55,200
Processor elements have simultaneous control, computation, and multidirectional communication capability. Processing elements are linked via asynchronous dual-port memories which have built-in processor communication control flags. This eliminates the need for switching networks.

■ **QUEN 8**
$90,600
Processor elements have simultaneous control, computation, and multidirectional communication capability. Processing elements are linked via asynchronous dual-port memories which have built-in processor communication control flags. This eliminates the need for switching networks.

Mercury Computer Systems

■ **MegaZIP**
MegaZIP is a modular, parallel processing array processor system designed for computationally intensive digital signal acquisition.

■ **ZIP 3232**
The ZIP 3232 array processor is used for signal processing, scientific processing, and simulation applications.

Numerix Corporation

■ **NMX-332**
$56,000+
The NMX-332 provides software compatibility with the NMX-432 and has a small footprint.

■ **NMX-432**
$82,000+
The NMX-432 is a 32-bit floating-point array processor with 20Mbps DMA ports. It is supported with a FORTRAN optimizing compiler.

■ **NMX-464**
$66,500+
The NMX-464 processor combines dual speed with dual precision (32- or 64-bit) and includes transparent software. It also features 256K instructions of program memory.

Sky Computers, Inc.

■ **SkyWarrior Q/20**
$10,900
Designed for MicroVAX II and 3500 and 3600 computers. Features a 32/64-bit floating point processor, 16-64KB cache memory, and a high level vector subroutine library.

Star Technologies, Inc.

■ **ST-100**
$265,000+
The ST-100 features the same capabilities as the VP Series; however, the ST-100 is able to serve up to seven VAX hosts.

■ **VP Series**
$85,000+
A single card BIbus interface allows the VP Series to attach to VAX systems that have only one available slot. One array processor is able to serve up to three VAX hosts.

Database Processors

Accel Technologies, Inc.

■ **DBA 1030**
$25,600
The DBA 1030 requires a UNIBUS-Ethernet board.

■ **DBA 1050**
$33,300
The DBA 1050 requires a UNIBUS-Ethernet board.

■ **ESM 100-1**
$7,900
The ESM 100-1 is an optional feature for both the DBA 1030 and 1050 and it supports standard character, fixed, and floating point data types.

■ **ESM 100-2**
$3,500
The ESM 100-2 is an optional feature for the DBA 1050 and it supports standard character, fixed, and floating point data types. The ESM 100-1 is a prerequisite for this product.

Computer Design & Applications, Inc.

■ **MSP-3000**
5 MIPS • $19,900+

Share Base (Britton Lee)

■ **Server/300-25**
10 MIPS • $25,000+

■ **Server/700-240**
$130,000+

■ **Server/8000-350**
10 MIPS • $265,000+

■ **Server/8000-450**
8 MIPS • $370,000+
Share Base SQL Database servers provide high-performance shared relational databases for a wide variety of client systems for decision support and transaction processing applications.

Teradata

DBC/1012
Services multiple host mainframes, minicomputers, workstations, and PCs simultaneously. Integrates an interface, access module, and communication processors.

Image Processors

Data Translation, Inc.

■ **DT2651**
Color/Monochrome • 512x512 bpi • $2,995
Digitizes a video signal, stores an image in one of two on-board frame-store memories, and displays the image in RGB false color in real time.

■ **DT2658**
Color/Monochrome • 512x512 bpi • $1,995
High speed auxilliary frame processor used in conjunction with Data Translation's DT2651 frame grabber.

Datacopy Corporation

■ **GP11**
Monochrome • $3,995

Datacube, Inc.

■ **QVG/AFA-423**
Monochrome • 768x2048 bpi
The QVG/AFA-423 is a Q-bus based, four frame, high resolution device that features a hardware generated alpha-numeric overlay and a video buffer that is used to acquire, store, and display multiple images.

Digital Instruments Corporation

MICROVAX IMAGING IMAX

Digital Instruments Corporation

■ **IMAX**
Color/Monochrome • 512x512 bpi • $7,200
IMAX...Add-in Image Display/Data Analysis system for the MicroVAX II. Extremely powerful interactive high level imaging, signal processing and data manipulation. In use by NASA, Naval Research Labs, astronomy and medical imaging labs worldwide. Outputs image data to RGB monitor (RS170-A format), publication quality plots and graphics data to VT series terminals, laser printers and plotters. PostScript interface available. Hardware includes a quad size board that supports image overlays, multisplit-screen displays, contour plotting, cyclic animation, zoom, minification, scroll, pan, bit-plane partitioning, extensive I/O lookup tables, multiuser/multiboard capability, and on-board DMA. Supplied with FORTRAN and C callable drivers, diagnositcs and mouse support. Software includes interactive or compiled modes, extensive function library (FFT) with smooth, fit, regression, histogram equalization, etc., mouse support, single statement image transforms, interface with FORTRAN , C., etc., and journaling. Supports all data-types (byte, double-precision, etc.) organized as scalars, vectors, matrices or arrays. The IMAX package includes Interactive Data Language (IDL) license and QD512 512x512x8 resolution RGB interface card, cables, complete documentation, 24-hour warranty hardware replacement and telephone software support.

DeRex, Inc.

■ **Champion II**
400x400 bpi • $5,595
Emulates the LN03 and the LN03+ and supports DeRex's S3000 II and S4500 II ion deposition printers.

Gould, Inc.

■ **FD5000**
Color • 512x512 bpi • $10,500+

■ **IP8400**
Color • 512x512 bpi • $35,000+
Also available with a resolution of 1024x1024.

■ **IP8500**
Color • 512x512 bpi • $40,000+
Also available with a resolution of 1024x1024.

■ **IP9000**
Color • 1280x1024 bpi

International Imaging Systems

■ **12S**
The 12S allows optimization of data transfer rates between the image processors and DEC host computers. Allows multiple IVAS display processors to be connected on a single interface, thereby using the full bandwidth of the BIbus.

■ **75**
Color • 512x512 bpi • $25,000+

Matrox Electronic Systems

■ **QG-1280A**
Color • 1280x1024 bpi
The QG-1280A features an on-board command set that provides a simple interface to any Q-bus graphics application and offloads the host processor. Supports GKS and GIN devices and features built-in VT100 terminal emulation.

■ **QG-640**
Color • 640x640 bpi
The QG-640 features an on-board command set that provides a simple interface to any Q-bus graphics application and offloads the host processor. Supports GKS and GIN devices and features built-in VT100 terminal emulation.

Perceptics Corporation

■ **9200**
Color • 4096x4096 bpi
The 9200 features real-time pixel and fast frequency domain processing and an embedded 68010 microprocessor with Resident Image Processing Software (RIPS) in PROM.

Peritek Corporation

■ **VCK-Q/U**
Color • 1024x1024 bpi • $4,485
Single board graphics microcomputer includes 68010, optional FPU, SCSI, dual serial I/O, 2MB display memory and alpha/graphics overlays. UNIBUS or Q-bus versions available. IDL, X, and Vista software are available.

■ **VCL-Q**
Color • 1280x1024 bpi
Single board graphics microcomputer includes 68030, optional FPU, SCSI, quad serial I/O, 4MB display memory, graphics overlay, and hardware cursor. IDL, X, and Vista software available.

Recognition Concepts, Inc.

■ **Trapix PLUS**
Color/Monochrome • 1024x1024 bpi • $30,000+
This high speed, real-time digital image processor acquires and processes images at 50MHz and 100MHz, respectively in real-time. Random access memory is expandable to 256MB.

Universal Computing

■ **UC3000**
Color • 1024x1024 bpi • $10,000
The UC3000 features 30Mbps image memory access that is tightly coupled to a 40Mflop array processor. Also features dual 1Kx1Kx8bit memory and provides an order of magnitude speed increse for VAX GPX systems.

Vicom Systems, Inc.

■ **Digital Processor**
Color • 1024x1024 bpi • $30,000+

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COMMUNICATION CONTROLLERS

Model	# of Ports	Parity Level	# of Stop Bits	Character Length (bits)	Bus Loading	Operating Modes	On-board Diagnostics	Max Baud Rate (bps)	Supported CPUs	Warranty	Price
Able Computer 714 553-1188											
DH/DM	16	O/E/N	1/1.5/2	5-8	1DC	FDX	Y	19.2K	UNIBUS	1 yr	$2,600
DHU/HS	16	O/E/N	1/1.5/2	5-8	1DC	FDX	Y	38.4K	UNIBUS	1 yr	$2,600
DZ/16	16	O/E/N	1/1.5/2	5-8	1DC	FDX	Y	19.2K	UNIBUS	1 yr	$2,500
VMZ/HS	16	O/E/N	1/1.5/2	5-8	1DC	FDX	Y	38.4K	UNIBUS	1 yr	$2,600
Camintonn Corporation 714 553-0247											
CM-DHV11-C	8	O/E/N	1/2	5-8	1AC/2DC		Y	38.4K	Q-bus	1 yr	
CM-DHV16-D	16	O/E/N	1/2	5-8	2AC/1DC		Y	38.4K	U/Q	1 yr	
CM-DLV11-J	4	O/E/N	1/2	5-8	2AC/1DC		Y	38.4K	U/Q	1 yr	
CM-DRQ11	8	O/E/N	1/2	5-8	2AC/1DC		Y	38.4K	Q-bus	1 yr	
Communication Machinery Corporation (CMC) 805 968-4262											
ENP-40									UNIBUS		$3,500
DILOG 714 937-5700											
CQ1610	16		1/2	5-8	2AC/1DC	FDX	Y	38.4K	Q-bus	1 yr	$1,450
CQ1620	8		1/2	5-8	2AC/1DC	FDX	N	38.4K	Q-bus	1 yr	$1,100
CU1710	16	O/E/N	1/1.5/2	5-8	1DC	FDX	Y	38.4K	UNIBUS	1 yr	$2,500
Dyna Five Corporation 714 525-8795											
D5-CI100-4		O/E/N	1/1.5/2	5-8				38.4K	Q-bus		
D5-CI100-8		O/E/N	1/2	5-8				19.2K	Q-bus		
D5-CI101-16		O/E/N	1/1.5/2	5-8				38.4K	Q-bus		
D5-CI101-8		O/E/N	1/1.5/2	5-8				38.4K	Q-bus		
Forney International, Inc. 214 458-6100											
ECS 1200				16			Y	1M	U/Q/B		
Intel Corporation 602 869-3805											
FastPath 9770							Y		U/Q	1 yr	$50,000+
MDB Systems, Inc. 714 998-6900											
MDB-DR11-W									UNIBUS	1 yr	$1,345
MLSI-DR11-W PLUS									Q-bus	1 yr	$1,250
MLSI-WLL11									UNIBUS		$895
MV-DR11-W									Q-bus	1 yr	$1,100
The Logical Company 503 942-3610											
CCQ-1100	8	O/E/N	1/1.5/2	5-8	1AC/1DC	FDX	Y	38.4K	Q-bus	1 yr	$795
CCQ-1101	16	O/E/N	1/1.5/2	5-8	1AC/1DC	FDX	Y	38.4K	Q-bus	1 yr	$795
CCQ-1400	8	O/E/N	1/1.5/2	5-8	1AC/1DC	FDX	Y	19.2K	Q-bus	1 yr	$995
CCQ-1401	8	O/E/N	1/1.5/2	5-8	1AC/1DC	FDX	Y	38.4K	Q-bus	1 yr	$995
CCU-1000	16	O/E/N	1/1.5/2	5-8	1AC/1DC	FDX	Y	38.4K	UNIBUS	1 yr	$1,595
CCU-1100	16	O/E/N	1/1.5/2	5-8	1AC/1DC	FDX	Y	38.4K	UNIBUS	1 yr	$1,595
CCU-1200	16	O/E/N	1/1.5/2	5-8	1AC/1DC	FDX	Y	9600	UNIBUS	1 yr	$1,595
CCU-1300	4	O/E/N	1/1.5/2	5-8	1AC/1DC	FDX/HDX	N	9600	UNIBUS	1 yr	$1,000
CCU-1301	4	O/E/N	1/1.5/2	5-8	1AC/1DC	FDX/HDX	N	9600	UNIBUS	1 yr	$1,000
CCU-1302	4	O/E/N	1/1.5/2	5-8	1AC/1DC	FDX/HDX	N	9600	UNIBUS	1 yr	$1,000
Xyplex, Inc. 508 264-9900											
Host Interface Unit									U/Q		$3,700

COMMUNICATION PROCESSORS

Model	# of Ports	Type of Firmware	Network Line Speed (bps)	DRAM (Bytes)	PROM (Bytes)	Type of Processor	MPU	System Capacity (Bytes)	Supported Hosts	DTE/DCE	Warranty	Price
3Com Corporation 408 562-6400												
GS/1-X.25	8	X.25					1			Y/Y		
Advanced Computer Communications (ACC) 805 963-9431												
ACP 5100	1	HDLC	1.544M	512K		FEP	1	256K-1M	Q-bus	Y/Y	90 d	$4,200
ACP 5250	1	X.25	300K	512K		FEP	1		Q-bus	Y/Y	90 d	$4,200
ACP 6100	1	HDLC	1.544M	256K		FEP	1	256K-1M	UNIBUS	Y/Y	90 d	$6,490
ACP 6250	1	X.25	1.5M	256K		FEP	1			Y/Y	90 d	$6,490
cisco Systems, Inc. 800 553-NETS												
CSC/1	32		2M				1					
CSC/2	32	X.25	64K				1			Y/Y		
Commnetics, Inc. 617 237-5860												
CN-2000	48					FEP						$150,000
Digital Communications Association 404 442-4000												
DPAX 1100	64		72K									$4,595
DPAX 2100	80		72K									$5,190+
GEN/COMP, Inc. 617 828-2008												
2081			1M								2 yrs	$3,000
Incotel, Inc. 212 594-8340												
IMX-700	500		56K			Msg Switch		8M	Bibus			$150,000
Micro IMX-700	128		56K			Msg Switch		5M	Q-bus			$75,000
LANTEK 415 549-0928												
BBMASTER	240		2.4M		8K	Intel 8044	Y		Q-bus	Y/Y	2 yrs	$2,800
MDB Systems, Inc. 714 998-6900												
JFEP-11						FEP		512K	UNIBUS			$4,950
TurboMux	32		38.4K				1	512K	UNIBUS			$6,455
Microtronix Systems, Ltd. 519 681-3430												
KXJ-X.25	128	X.25	56K			FEP		64K	Q-bus			$9,900
LSI-X.25	5	X.25	56K			FEP		64K	UNIBUS			$9,900
Racal-Milgo 800 327-4440												
Omnimux PNP-200	34	X.25	.5M	32K	64K	68010	1				90 d	$19,300
Omnimux PNP-4000	480	X.25	2M	64K	128K	68020	1-3				90 d	$69,260
Omnimux PNP-5000	448	X.25	4M	64K	128K	68020	2-5				90 d	$99,650
Omnimux PNP-600	192	X.25	1M	32K	64K	68010	1-2				90 d	$38,800
Siemens Data Switching Systems 407 955-5000												
EDX-P	1008		9600			N/W Node		4M				
Simpact Associates, Inc. 619 565-1865												
EXC1612	12		9600		64K	FEP				Y/Y	1 yr	$2,000
ICP1600	8	EPROM	614K	256K	15K	FEP	1	256K	UNIBUS	Y/Y	1 yr	$6,000
ICP1622	4	EPROM	614K	512K	15K	FEP	1	512K	Q-bus	Y/Y	1 yr	$3,600
ICP1622T	4	EPROM	614K	512K	15K	FEP	1	512K	Q-bus	Y/Y	1 yr	$4,975
ICP1632	4	EPROM	1.544M	1M	16K	FEP	1	1M	Bibus	Y/Y	1 yr	$8,000
ICP3212	12				64K	FEP	1		Q-bus	Y/Y	1 yr	$4,200
ICP3222	4	EPROM	1.544M	2.5M	128K	FEP	1		Q-bus	Y/Y	1 yr	$5,600
Software Results Corporation 614 785-0282												
COMBOARD/SNA-1251	1		64K			FEP	1	256K	UNIBUS		120 d	$12,700+
COMBOARD/SNA-1252	1		64K			FEP	1	256K	Q-bus		120 d	$10,900+
COMBOARD/SNA-451	1					FEP	1	256K	UNIBUS		120 d	$7,000+
COMBOARD/SNA-651	1		64K			FEP	1	256K	UNIBUS		120 d	$9,400+
COMBOARD/SNA-652	1		64K			FEP	1	256K	Q-bus		120 d	$6,100+

COMMUNICATION PROCESSORS

Model	# of Ports	Type of Firmware	Network Line Speed (bps)	DRAM (Bytes)	PROM (Bytes)	Type of Processor	MPU	System Capacity (Bytes)	Supported Hosts	DTE/DCE	Warranty	Price
Software Results Corporation 614 785-0282 (continued)												
COMBOARD/SNA-751	1		64K			FEP	1	256K	UNIBUS		120 d	$11,500+
COMBOARD/SNA-752	1		64K			FEP	1	256K	Q-bus		120 d	$9,900+
Talon Technology Corporation 214 680-9913												
MaxComm/QB	1	HDLC	2M	512K	64K	68000	1	512K	Q-bus	Y/Y	1 yr	$7,500
MaxComm/UB	1	HDLC	2M	512K	64K	68000	1	512K	UNIBUS	Y/Y	1 yr	$7,500
Tri-Data Systems, Inc. 408 746-2900												
Netway 200	32		19.2K			N/W Node		256K				$7,500
Vitalink Communications Corporation 415 794-1100												
TransLINK	8		1M			N/W Node		1M				$10,000
Xyplex, Inc. 508 264-9900												
BI-FEP						FEP			BIbus			$7,500
XP-UN64-A	64					FEP						$3,700

COMMUNICATION PROTOCOL INTERFACES

Model	# of Ports	FEP	Supported Hosts	Single Line Data Rate (bps)	Multi-Line Data Rate (bps)	Operating System	Software Included	Supported Interfaces	Warranty	Price
Interlan Inc. 508 263-9929										
NP629										$3,995
Local Data 213 320-7126										
DataLynx/3174	4						Y	RS232/422/V.24		$3,000
DataLynx/3174	8						Y	RS232/422/V.24		$4,000
DataLynx/3174	12						Y	RS232/422/V.24		$5,000
DataLynx/3174	16						Y	RS232/422/V.24		$6,000
DataLynx/3174	24						Y	RS232/422/V.24		$8,000
DataLynx/3174	32						Y	RS232/422/V.24		$10,000
Method Systems, Inc. 800 533-6116										
PCT-100	2			19.2K	19.2K			RS232	1 yr	$495
Micom Communications Corporation 805 583-8600										
MB3-SPC	4-16	Y		19.2K	19.2K		Y	RS232	3 yrs	$2,885+
Purvis Systems, Inc. 401 849-4750										
Q-bus/NTDS			Q-bus						90 d	$3,400
UNIBUS/NTDS			UNIBUS						90 d	$5,400
Racal-Milgo 800 327-4440										
TCI 551VCC/U	1			1.544M				V.35/RS422	1 yr	$8,890
Simpact Associates, Inc. 619 565-1865										
CPI 10000/BSC 2780/3780	8	Y	UNIBUS	56K	9.6K	VMS/UL/RSX	Y	EIA232/449/V.35	1 yr	$11,000+
CPI 10010/BSC 2780/3780	4	Y	Q-bus	56K	9.6K	VMS/UL/MRSX	Y	EIA232/449/V.35	1 yr	$7,000+
CPI 10020/BSC 2780/3780	4	Y	BIbus	56K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$13,500
CPI 10030/BSC 2780/3780	4	Y	Q-bus	56K	9.6K	VMS/UL/MRSX	Y	EIA232/449/V.35	1 yr	$7,000+
CPI 10100/BSC 3270	8	Y	UNIBUS	56K	9.6K	VMS/UL/RSX	Y	EIA232/449/V.35	1 yr	$9,000
CPI 10110/BSC 3270	4	Y	Q-bus	56K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.35	1 yr	$5,600+
CPI 10120/BSC 3270	4	Y	BIbus	56K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$11,000

COMMUNICATION PROTOCOL INTERFACES

Model	# of Ports	FEP	Supported Hosts	Single Line Data Rate (bps)	Multi-Line Data Rate (bps)	Operating System	Software Included	Supported Interfaces	Warranty	Price
Simpact Associates, Inc. 619 565-1865 (continued)										
CPI 10130/BSC 3270	4	Y	Q-bus	56K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.35	1 yr	$5,600+
CPI 10200/FMP	8	Y	UNIBUS	56K	9.6K	VMS/UL/RSX	Y	EIA232/449/V.35	1 yr	$11,100+
CPI 10210/FMP	4	Y	Q-bus	56K	9.6K	VMS/UL/MRSX	Y	EIA232/449/V.35	1 yr	$7,000+
CPI 10220/FMP	4	Y	Bibus	56K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.35	1 yr	$13,500
CPI 10230/FMP	4	Y	Q-bus	56K	9.6K	VMS/UL/MRSX	Y	EIA232/449/V.35	1 yr	$7,000+
CPI 10300/HASP	8	Y	UNIBUS	56K	9.6K	VMS/UL/RSX	Y	EIA232/449/V.35	1 yr	$11,100+
CPI 10310/HASP	4	Y	Q-bus	56K	9.6K	VMS/UL/MRSX	Y	EIA232/449/V.35	1 yr	$7,000+
CPI 10320/HASP	4	Y	Bibus	56K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$13,500
CPI 10330/HASP	4	Y	Q-bus	56K	9.6K	VMS/UL/MRSX	Y	EIA232/449/V.35	1 yr	$7,000+
CPI 10400	8	Y	UNIBUS	56K	9600	VMS/UL/RSX	Y	EIA232/449/V.28	1 yr	$11,100+
CPI 10410	4	Y	Q-bus	56K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$7,000+
CPI 10420	4	Y	Bibus	56K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$13,500
CPI 10430	4	Y	Q-bus	56K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$7,000+
CPI 11000/Async	8	Y	UNIBUS	57.6K	9600	VMS/UL/RSX	Y	EIA232/449/V.28	1 yr	$9,000
CPI 11010/Async	4	Y	Q-bus	57.6K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$5,600
CPI 11020/Async	4	Y	Bibus	57.6K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$11,000
CPI 11030/Async	4	Y	Q-bus	57.6K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$5,600
CPI 12010/SNA	2	Y	Q-bus	56K	56K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$8,975+
CPI 12020/SNA	2	Y	Bibus	56K	56K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$15,000+
CPI 12030/SNA	2	Y	Q-bus	56K	56K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$8,975
CPI 13010/AUTODIN	4	Y	Q-bus	19.2K	4800	VMS	Y	EIA232/449/V.28	1 yr	$9,500+
CPI 13030/AUTODIN	4	Y	Q-bus	19.2K	4800	VMS	Y	EIA232/449/V.28	1 yr	$9,500+
CPI 2000/X.25	8	Y	UNIBUS	307K	9.6K	VMS/UL/RSX	Y	RS232/422/V.35	1 yr	$6,800+
CPI 2010/X.25	4	Y	Q-bus	307K	19.2K	VMS/UL/MRSX	Y	EIA232/422/V.35	1 yr	$4,400+
CPI 2020/X.25	4	Y	Bibus	307K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$11,000
CPI 2030/X.25	4	Y	Q-bus	307K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.35	1 yr	$4,400+
CPI 3000/HDLC	8	Y	UNIBUS	1000K	9.6K	VMS/UL/RSX	Y	EIA232/449/V.28	1 yr	$6,000+
CPI 3010/HDLC	4	Y	Q-bus	1000K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$4,300+
CPI 3020/HDLC	4	Y	Bibus	1000K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$11,000
CPI 3030/HDLC	4	Y	Q-bus	1000K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$4,300+
CPI 4000/ADCCP NRM	8	Y	UNIBUS	19.2K	9.6K	VMS/UL/RSX	Y	EIA232/449/V.28	1 yr	$11,000+
CPI 4010/ADCCP NRM	4	Y	Q-bus	19.2K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$7,000+
CPI 4020/ADCCP NRM	4	Y	Bibus	19.2K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$13,500
CPI 4030/ADCCP NRM	4	Y	Q-bus	19.2K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$7,000+
CPI 4200/ADCCP ABM	8	Y	UNIBUS	1000K	9.6K	VMS/UL/RSX	Y	EIA232/449/V.28	1 yr	$11,000+
CPI 4210/ADCCP ABM	4	Y	Q-bus	1000K	19.2K	VMS/UL/RSX	Y	EIA232/449/V.28	1 yr	$7,000+
CPI 4220/ADCCP ABM	4	Y	Bibus	1000K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$13,500
CPI 4230/ADCCP ABM	4	Y	Q-bus	1000K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$7,000+
CPI 5000/SDLC	8	Y	UNIBUS	19.2K	19.2K	VMS/UL/RSX	Y	EIA232/449/V.28	1 yr	$9,000+
CPI 5010/SDLC	4	Y	Q-bus	19.2K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.35	1 yr	$5,600+
CPI 5020/SDLC	4	Y	Bibus	19.2K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	1 yr	$11,000
CPI 5030/SDLC	4	Y	Q-bus	19.2K	19.2K	VMS/UL/MRSX	Y	EIA232/449/V.28	1 yr	$5,600+
CPI 8010/DDCMP	4	Y	Q-bus	1000K	19.2K	VMS	Y	EIA232/449/V.28	1 yr	$5,000+
CPI 8020/DDCMP	4	Y	Bibus	1000K	19.2K	VMS	Y	EIA232/449/V.28	1 yr	$11,000
CPI 8030/DDCMP	4	Y	Q-bus	1000K	19.2K	VMS	Y	EIA232/449/V.28	1 yr	$5,000+
CPI 9000/DDN	8	Y	UNIBUS	307K	9.6K	VMS/ULTRIX	Y	EIA232/449/V.35	9 m	$17,000+
CPI 9010/DDN	4	Y	Q-bus	307K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.35	9 m	$12,400+
CPI 9020/DDN	4	Y	Bibus	307K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.28	9 m	$23,800+

COMMUNICATION PROTOCOL INTERFACES

Model	# of Ports	FEP	Supported Hosts	Single Line Data Rate (bps)	Multi-Line Data Rate (bps)	Operating System	Software Included	Supported Interfaces	Warranty	Price
Simpact Associates, Inc. 619 565-1865 (continued)										
CPI 9030/DDN	4	Y	Q-bus	307K	19.2K	VMS/ULTRIX	Y	EIA232/449/V.35	9 m	$12,400+
Software Results Corporation 614 785-0282										
COMBOARD-HASP-1231	1	Y	UNIBUS	56K		VMS/UNIX	Y	RS232/V.24/V.28	120 d	$12,500+
COMBOARD-HASP-1232	1	Y	Q-bus	56K		VMS/UNIX	Y	RS232/V.24/V.28	120 d	$24,500
COMBOARD-HASP-1252	1	Y	Q-bus	56K	N/A	VMS/UNIX	Y	RS232/V.24/V.28	120 d	$8,700+
COMBOARD-HASP-431	1	Y	UNIBUS	4800		VMS/UNIX	Y	RS232/V.24/V.28	120 d	$6,500+
COMBOARD-HASP-432	1	Y	Q-bus	4800		VMS/UNIX	Y	RS232/V.24/V.28	120 d	$6,500+
COMBOARD-HASP-452	1	Y	Q-bus	4800	N/A	VMS/UNIX	Y	RS232/V.24/V.28	120 d	$3,500+
COMBOARD-HASP-631	1	Y	UNIBUS	9600		VMS/UNIX	Y	RS232/V.24/V.28	120 d	$9,200+
COMBOARD-HASP-632	1	Y	Q-bus	9600		VMS/UNIX	Y	RS232/V.24/V.28	120 d	$9,900+
COMBOARD-HASP-652	1	Y	Q-bus	4800	N/A	VMS/UNIX	Y	RS232/V.24/V.28	120 d	$5,900+
COMBOARD-HASP-731	1	Y	UNIBUS	19.2K		VMS/UNIX	Y	RS232/V.24/V.28	120 d	$11,300+
COMBOARD-HASP-732	1	Y	Q-bus	19.2K		VMS/UNIX	Y	RS232/V.24/V.28	120 d	$10,900+
COMBOARD-HASP-752	1	Y	Q-bus	19.2K	N/A	VMS/UNIX	Y	RS232/V.24/V.28	120 d	$7,700+
COMBOARD-SNA-1252	1	Y	Q-bus	56K	N/A	VMS/UNIX	Y	RS232/V.24/V.28	120 d	$10,900+
COMBOARD-SNA-452	1	Y	Q-bus	4800	N/A	VMS/UNIX	Y	RS232/V.24/V.28	120 d	$3,500+
COMBOARD-SNA-652	1	Y	Q-bus	9600	N/A	VMS/UNIX	Y	RS232/V.24/V.28	120 d	$6,100+
COMBOARD-SNA-752	1	Y	Q-bus	19.2K	N/A	VMS/UNIX	Y	RS232/V.24/V.28	120 d	$9,900+
COMBOARD/3780-1231	1	Y	UNIBUS	56K		VMS	Y	RS232/V.24/V.28	120 d	$11,300+
COMBOARD/3780-431	1	Y	UNIBUS	4800		VMS	Y	RS232/V.24/V.28	120 d	$6,500+
COMBOARD/3780-631	1	Y	UNIBUS	9600		VMS	Y	RS232/V.24/V.28	120 d	$8,400+
COMBOARD/3780-731	1	Y	UNIBUS	19.2K		VMS	Y	RS232/V.24/V.28	120 d	$10,100+

COMMUNICATION SERVERS

Model	# of Ports	Transmission Type	Max Baud Rate (bps)	LAN Interface	WAN Interface	LANbus Performance (bps)	Ethernet/ Thin Wire	Rackmount/ Standalone	Network Interface	Memory Capacity (Bytes)	Warranty	Price
3Com Corporation 408 562-6400												
CS/200	10	A/S	38.4K	Y		10M	E	S	802.3	512K		
CS/210	10	A/S	38.4K	Y		10M	E	S	802.3	512K		
GS/3	8	Sync	64K	Y			E	S	802.3			
GS/300	4		19.2K	Y			E	S	802.3			
IVECS	8			Y			E	R	802.3	1M	6 m	$5,900
NCS/AT				Y			E	S	802.3			
Able Computer 714 553-1188												
LC3600	3600	Async	1M	Y	Y			R	HDLC		1 yr	$10,200
DILOG 714 937-5700												
CQ2010	128	Async	9600	Y		1.544M	E	R	T-1		1 yr	$3,900
Xyplex, Inc. 508 264-9900												
MX-MAX4500-E/y	5		1.544M	Y	*	10M	E	R/S	802.3		3 yrs	$3,995
MX-MAX4500-T	5		1.544M	Y	*	10M	T	R/S	802.3		3 yrs	$3,995
MX-MAX5000-E	16		1.544M	Y	*	10M	E	R/S	802.3		3 yrs	$9,995
MX-MAX5000-T	16		1.544M	Y	*	10M	T	R/S	802.3		3 yrs	$9,995

MODEMS

Model	Max Baud Rate (bps)	Max Mile Range	Modem Type	Auto Dial	Alternate Voice	Operating Modes	Transmission Type	Rackmount/ Standalone	Compatibility (Bell/CCITT)	Warranty	Price
Able Computer 714 553-1188											
MB 220	1M	3	Fiber Optic		N	FDX/HDX		S		1 yr	$1,250
T1 MODEM MB100	1.544M	1	T1		N	FDX/HDX		S		1 yr	$3,500
Astronautics Corporation of America 414 447-8200											
AC312	300		Acoustic			FDX/HDX	Async		100		$199
AT&T Paradyne Corporation 813 530-2000											
3450	14.4K		Leased Line	Y			Async			1 yr	
3470	19.2K		Leased Line	Y			Async			1 yr	
34x0	19.2K		Leased Line	Y			Async				
34x1	9600		Leased Line				Async			1 yr	
34x2	9600		Leased Line				Async			1 yr	
34x3	19.2K		Leased Line				Async			1 yr	
Bizcomp Corporation 408 733-7800											
4124	2400	Unltd	Voice Band	Y	N	FDX/HDX	A/S	S	212/103	2 yrs	$599
5124R	2400	Unltd	Voice Band	Y	N	FDX/HDX	A/S	R	212/103	2 yrs	$599
5124RE	2400	Unltd	Voice Band	Y	N	FDX/HDX	A/S	R	212/103	2 yrs	$599
EXT	1200	Unltd	Voice Band	Y	Y	FDX/HDX	Async	S	212/103	2 yrs	$449
Black Box Corporation 412 746-5500											
1200HC	1200	Unltd	Voice Band	Y	N	FDX	Async	S	212A/103	3 yrs	$175
201 BC/AS	2400	Unltd	Voice Band	N	N		A/S	R/S	201B/C	3 yrs	$685
208 A/B	4800	Unltd	Voice Band	N	N	FDX/HDX	Sync	R/S	208A/B	3 yrs	$1,295
208 AB/AS	4800	Unltd	Voice Band	N	N	FDX/HDX	A/S	R/S	208A/B	3 yrs	$1,295
224 ATD	2400	Unltd	Voice Band	Y	N	FDX	A/S	R	212A/103	3 yrs	$500
2400 HC	2400	Unltd	Voice Band	Y	N	FDX	A/S	S	212A/103	3 yrs	$375
2400 Security Modem	2400	Unltd	Voice Band	Y	N	FDX	Async	R/S	212A/103	3 yrs	$795
2400/120	2400	Unltd	Leased LIne	N		FDX/HDX	A/S	S	201B/V.26	3 yrs	$825
3/12 NPR	1200	Unltd	Voice Band	N	N	FDX	Async	S	212A/103	3 yrs	$199
9600 A/B	9600	Unltd	Voice Band	N	N	FDX/HDX	Sync	S	V.29	3 yrs	$1,995
9600 Async Plus	9600	Unltd	Voice Band	Y	Y	FDX	Async	S	212A/103	3 yrs	$1,099
9600 Async Turbo	19.2K	Unltd	Voice Band	Y	Y	FDX	Async	S	212A/103	3 yrs	$1,099
9600 FP	9600	Unltd	Voice Band			FDX/HDX	Sync	R/S		3 yrs	$1,995
9600 Synchronous	9600	Unltd	Voice Band			FDX/HDX	Sync	S	V.29	3 yrs	$1,695
All-in-One	19.2K					FDX	A/S	R/S	V.22/V.32		$1,245+
CSU/DSU	9600	Unltd	DDS Ntwrk			FDX/HDX	A/S	S		3 yrs	$825
CSU/DSU V.35		Unltd	DDS Ntwrk			FDX/HDX	Sync	S		3 yrs	$770
Modem Rack										3 yrs	$895
Security Modem	1200	Unltd	Leased Line	Y	N	FDX	Async	S	212A/103	3 yrs	$595
V.32	9600	Unltd	Leased Line	Y	N	FDX	A/S	S	V.32	3 yrs	$1,595
Bo-Sherrel Company, Inc. 415 792-0354											
LD-3M	19.2K	10	Line Driver	N	N	FDX	Async	S	N	2 yrs	$69
M-1AR	19.2K	10	Ltd Dist	N	N	FDX	Async	R/S	3081	2 yrs	$138
M-3	19.2K	10	Line Driver	N	N	FDX	Async	S	3081	2 yrs	$49
M-5S	38.4K	10	Short Haul	N	N	HDX	Async	S	3081	2 yrs	$219
M-E	38.4K		Eliminator	N			A/S	R/S	N	2 yrs	$249
Canoga-Perkins 818 718-6300											
2121	19.2K		Fiber Optic			FDX	Async			1 yr	$125
2250	153.6K		Fiber Optic				A/S	R/S		1 yr	$695
2260	2.048M		Fiber Optic					R/S		1 yr	$795
2270	20M		Fiber Optic				A/S	R/S		1 yr	$3,095

MODEMS

Model	Max Baud Rate (bps)	Max Mile Range	Modem Type	Auto Dial	Alternate Voice	Operating Modes	Transmission Type	Rackmount/ Standalone	Compatibility (Bell/CCITT)	Warranty	Price
Canoga-Perkins 818 718-6300 (continued)											
2280	12.6M		Fiber Optic				A/S	R/S		1 yr	$895
2290	12.6M		Fiber Optic				A/S	R/S		1 yr	$1,095
Case/Datatel 800 424-4451											
DCP3000	64K	.25	Ltd Dist				Async	S	43401		
DCP3020	64K	.25	Ltd Dist				Async	S	43401		
DCP3050	19.2K	1	Ltd Dist				A/S	S	43401		
DCP3055	19.2K	1	Ltd Dist				A/S	S	43401		
DCP3057	64K	.25	Ltd Dist				A/S	S	43401		
DCP3080	56K	2	Ltd Dist				Sync	S			
DCP3083	56K	2	Ltd Dist				Sync	S			
DCP3100	64K	.25	Ltd Dist				Async	R	43401		
DCP3120	64K	.25	Ltd Dist				Async	R	43401		
DCP3150	19.2K	1	Ltd Dist				A/S	R	43401		
DCP3155	19.2K	1	Ltd Dist				Async	R	43401		
DCP3157	64K	.25	Ltd Dist				A/S	R	43401		
DCP3180	56K	2	Ltd Dist				Sync	R			
DCP3183	56K	2	Ltd Dist				Sync	R			
Cermetek Microelectronics 800 862-6271											
1200	1200			Y		FDX	A/S				$395
1200 Security	1200						A/S				$595
1200V	1200			Y			Async				$595
2400R	2400			Y			A/S				$645
9600	4800					FDX					$2,999
9600E	4800					FDX					$3,399
Codex Corporation 617 364-2000											
2111 LDSU	19.2K	23	Ltd Dist			FDX/HDX	Async	R/S		1 yr	$335
2121 LDSU	19.2K	26	Ltd Dist			FDX/HDX	A*/S	R/S		1 yr	$775
2121C LDSU	19.2K	26	Ltd Dist			FDX/HDX	A/S	R			$680
2122 LDSU	64K	7.5	Ltd Dist			FDX/HDX	Sync	R/S		1 yr	$875
2123 LDSU	19.2K	23	Ltd Dist			FDX/HDX	A*/S	R/S		1 yr	$1,250
2205	4800		Voice Band			FDX/HDX	Sync	S	208A/B	1 yr	$1,295
2206	9600		Voice Band			FDX/HDX	Sync	S	208A/B	1 yr	$1,995
2219	1200		Voice Band			FDX/HDX	Async	R/S	202S/T	1 yr	$475
2234	2400		Voice Band	Y		FDX	A/S	S	103/212	1 yr	$495
2239	2400		Voice Band	Y		FDX	A/S	R	212/103	1 yr	$895
2260	9600			Y		FDX	A/S	S	V.32		$1,995
2260	9600			Y		FDX	A/S	R			$2,545
2264	9600		Voice Band	Y		FDX	A/S	R/S	212A	1 yr	$1,695
2320	4800		Voice Band			FDX/HDX	A/S	R/S		1 yr	$1,425
2340	9600		Voice Band			FDX/HDX	A/S	R/S		1 yr	$1,650
2362	14.4K					FDX	A/S	R/S	V.24/V.28	1yr	$3,195
2680	19.2K		Voice Band			FDX/HDX	Sync	S	V.24/V.28	1 yr	$6,650+
Computer Products, Inc. 305 974-5500											
GT303	2400			Y	N		Async	R	103/212A	1 yr	$990
Computrol 203 431-2000											
M-1											$165
M-10			Fiber Optic								$2,500

MODEMS

Model	Max Baud Rate (bps)	Max Mile Range	Modem Type	Auto Dial	Alternate Voice	Operating Modes	Transmission Type	Rackmount/ Standalone	Compatibility (Bell/CCITT)	Warranty	Price
Comspec, Inc. 713 461-4487											
9600C	9600		Voice Band			FDX/HDX	Sync				$3,495
CTS Corporation 800 328-6104											
14.4MX	14.4K	N/A	Voice Band	N	N/A	FDX/HDX	Sync	S		1 yr	$4,695
212AHC	1200	N/A	Voice Band	Y	Y	FDX	Async	S	212A	2 yrs	$295
2424AD	2400	N/A	Voice Band	Y	Y	FDX	A/S	S	212A	2 yrs	$395
2424ADH Plus	2400	N/A	Voice Band	Y	Y	FDX	A/S	S	212A	2 yrs	$395
2424AMH Plus	2400	N/A	Voice Band	Y	Y	FDX	A/S	S	212A	2 yrs	$495
2424RMH	2400		Voice Band	Y	N	FDX	A/S	R	212A	2 yrs	$395
2424RMM	2400		Voice Band	Y	N	FDX	A/S	R	212A	2 yrs	$495
4827	4800	N/A	Voice Band	N	N/A	FDX/HDX	Sync	S	V.27	1 yr	$1,195
9629FP	9600	N/A	Voice Band	N	N	FDX/HDX	Sync	S	V.29	1 yr	$1,995
CXR Telcom Corporation 408 435-8520											
1212-AD3H	1200	Unltd	Voice Band	Y	Y	FDX	A/S	R/S	103/212A	1 yr	$495
1212-STH	1200	Unltd	Voice Band	Y		FDX	A/S	S	103/212A	1 yr	$295
1241-124	1200	Unltd	Voice Band			FDX	A/S	R/S	212/103	1 yr	$995
1241-234	1200	Unltd	Voice Band			FDX	A/S	R/S		1 yr	$995
1243-223	1200	Unltd	Voice Band			FDX	A/S	R/S	212/103	1 yr	$995
1441-1	14.4K	Unltd	Voice Band		Y	FDX	Sync	R/S		1 yr	$2,045
1441-1D	14.4K	Unltd	Voice Band	Y	Y	FDX	Sync	R/S		1 yr	$2,345
1911-L2	19.2K	Unltd	Voice Band			FDX	Sync	R/S		1 yr	$5,470
1911-L2T	19.2K	Unltd	Voice Band	Y		FDX	Sync	R/S		1 yr	$5,795
2412-AD3H	2400	Unltd	Voice Band	Y		FDX/HDX	A/S	R/S	212A/103	1 yr	$695
2412-STH	2400	Unltd	Voice Band	Y	Y	FDX	A/S	S	212/103	1 yr	$495
2441-1	2400	Unltd	Voice Band	Y	Y	FDX	A/S	R/S	212/103	1 yr	$695
2441-2	2400	Unltd	Voice Band	Y	N	FDX	A/S	R/S	212/103	1 yr	$495
2441-3	2400	Unltd	Voice Band	N	N	FDX	A/S	R/S	212/103	1 yr	$495
9641-1	9600	Unltd	Voice Band			FDX	A/S	R/S		1 yr	$1,295
9641-1D	9600	Unltd	Voice Band	Y		FDX	A/S	R/S		1 yr	$1,595
9641-1F	9600	Unltd	Voice Band			FDX	A/S	R/S		1 yr	$1,595
9641-1FD	9600	Unltd	Voice Band	Y		FDX	A/S	R/S		1 yr	$1,895
9651-1	9600	Unltd	Voice Band	Y		FDX	Sync	R/S		1 yr	$1,545
9651-2	9600	Unltd	Voice Band	Y		FDX	A/S	R/S		1 yr	$1,395
Datacom Technologies, Inc. 206 355-0590											
192	19.2K					FDX/HDX	A/S	S		1 yr	$259
193	19.2K					FDX/HDX	A/S	R		1 yr	$239
300	19.2K	10	Short Haul				Async	R/S		1 yr	$139
400	19.2K	10	Short Haul				Sync	R/S		1 yr	$159
DCB, Inc. 800 637-1127											
PL 14.4	14.4K	N/A	Voice Band	N/A	N/A	FDX	Sync	S		1 yr	$1,800
PL 14.4 Plus	14.4K	N/A	Voice Band	N/A	N/A	FDX	Sync	S		1 yr	$2,300
PL 19.2	19.2K	N/A	Voice Band	N/A	N/A	FDX	Sync	S		1 yr	$4,400
PL 19.2 Plus	19.2K	N/A	Voice Band	N/A	N/A	FDX	Sync	S	V.29	1 yr	$4,900
PL 4.8	4800	N/A	Voice Band	N/A	N/A	FDX	Sync	S	V.27	1 yr	$1,100
PL 4.8 Plus	4800	N/A	Voice Band	N/A	N/A	FDX	Sync	S	V.27	1 yr	$1,600
PL 9.6	9600	N/A	Voice Band	N/A	N/A	FDX	Sync	S	V.29	1 yr	$1,400
PL 9.6 Plus	9600	N/A	Voice Band	N/A	N/A	FDX	Sync	S	V.29	1 yr	$1,900
PL 9.6FP	9600	N/A	Voice Band	N/A	N/A	FDX	Sync	S		1 yr	$2,000
PL 9.6FP Plus	9600	N/A	Voice Band	N/A	N/A	FDX	Sync	S		1 yr	$2,500

MODEMS

Model	Max Baud Rate (bps)	Max Mile Range	Modem Type	Auto Dial	Alternate Voice	Operating Modes	Transmission Type	Rackmount/ Standalone	Compatibility (Bell/CCITT)	Warranty	Price
Digital Communications Association 404 442-4000											
910	2400		Voice Band			FDX/HDX	Sync				$895
911	2400		Voice Band			FDX	A/S		212A		$795
920	4800		Voice Band			FDX/HDX	Sync				$1,495
930	9600		Voice Band			FDX	Sync				$2,395
932	9600		Voice Band			FDX	Sync		2109		$2,695
940	14.4K		Voice Band			FDX/HDX	Sync				$4,995
Fairchild Data Corporation 602 949-1155											
M8023	10M	2	Ethr BrdBnd			FDX	Async	R/S		1 yr	$2,690
Fastcomm Data Corporation 703 620-3900											
FDX 2448	4800	Unltd	V.22 bis	Y	Y	FDX	A/S	S	212A/V.22	2 yrs	$649
FDX 2448B	4800	Unltd	V.22 bis	Y	Y	FDX	Async	S	212A/V.22	1 yr	$599
FDX 9624	19.2K	Unltd	Asymmetric	Y	Y	FDX	Async	S	V.32/V.22	2 yrs	$899
FDX 9624	19.2K	Unltd	Asymmetric	Y	Y	FDX	Async	R/S	V.32/V.22	2 yrs	$899
FDX 9696	19.2K	Unltd	V.32	Y	Y	FDX	A/S	S	V.32/V.22	2 yrs	$1,299
FDX 9696B	19.2K	Unltd	V.32	Y	Y	FDX	Async	S	212A/V.32	1 yr	$1,199
FDX 9696RMV	19.2K	Unltd	V.32	Y	Y	FDX	A/S	R	212A/V.32	2 yrs	$1,299
FiberCom, Inc. 703 342-6700											
TFM-9600	19.2K					FDX	A/S		103/209		$695
WFT-12	19.2K		Fiber Optic			FDX		R			$1,195+
WhisperLink	19.2K		Fiber Optic			FDX	A/S		103/209		$495
Gandalf Data, Inc. 800 722-9638											
ACCESS 208	4800	Unltd	Voice Band	N	Y	FDX/HDX	A/S	R/S	208A/B	1 yr	$1,195
ACCESS 24S	2400	Unltd	Voice Band	Y	Y	FDX	A/S	R/S	103/212	1 yr	$595
ACCESS 24V	2400	Unltd	Voice Band	Y	Y	FDX	A/S	R/S	103/212	1 yr	$695
Fastrak 14.4	9600	Unltd	Voice Band			FDX	Sync	R/S	V.29	1 yr	$2,995
Fastrak 96	9600	Unltd	Voice Band			FDX	Sync	R/S	V.29	1 yr	$1,650
Fastrak 96FP	9600	Unltd	Voice Band			FDX/HDX	Sync	R/S	V.29*	1 yr	$1,895
LDM 192	19.2K	200	Leased Line			FDX	A/S	R/S		1 yr	$2,695
LDM 418	4800	200	Med Dist			FDX	A/S	R/S		1 yr	$700
LDM 419	9600	200	Voice Band			FDX	A/S	R/S		1 yr	$1,025
LDM 444	4800	200	Voice Band			FDX/HDX	Sync	R/S		1 yr	$1,150
LDM 454	4800	200	Voice Band		N	FDX/HDX	A/S	R/S		1 yr	$1,295
LDM 640	64K		Private Line	N	Y		A/S	R/S		1 yr	$325
LDS 120A	19.2K	2.5	Short Haul			FDX/HDX	Async	R/S		1 yr	$300
LDS 140	9600	25	Short Haul			FDX/HDX	Async	R/S		1 yr	$450
LDS 309A	19.2K	17	Short Haul			FDX/HDX	A/S	R/S		1 yr	$385
mLDS 122	9600	4	Short Haul			FDX	Async			6 m	$95
mLDS 123	19.2K	4.5	Short Haul			FDX	Async			6 m	$105
mLDS 123X	19.2K	4.5	Short Haul			FDX	Async			6 m	$105
RM 3260	256K	2.4	Voice Band			FDX	Sync	S	301/303	1 yr	$655
RM 3444	4800	200	Voice Band			FDX/HDX	Sync	R/S		1 yr	$1,075
RM 3454	4800	200	Voice Band			FDX/HDX	A/S	R/S		1 yr	$1,195
SAM 201	2400	Unltd	Voice Band	N	Y	FDX/HDX	A/S	R/S	201C/V.26	1 yr	$725
General Datacomm Industries 203 574-1118											
DC 19202A	19.2K		Private Lne	Y			A/S	R/S		1 yr	$4,495
DC 296B	9.6K		Swt Ntwk	Y	Y		A/S	R/S	V.32	1 yr	$1,455
DC V.32	9.6K		Swt Ntwk	Y	Y		A/S	R/S	V.32	1 yr	$1,495
Desktop 9600 RPA	9.6K			Y	N			S	V.29	1 yr	$1,595

MODEMS

Model	Max Baud Rate (bps)	Max Mile Range	Modem Type	Auto Dial	Alternate Voice	Operating Modes	Transmission Type	Rackmount/ Standalone	Compatibility (Bell/CCITT)	Warranty	Price
General Datacomm Industries 203 574-1118 (continued)											
Desktop V.29 RPA	9.6K				N			S	V.29	1 yr	$1,595
GDC 19202A ADR	19.2K		Swt Ntwk	Y	Y		A/S	R/S		1 yr	$5,495
Hayes Microcomputer Products, Inc. 404 449-8791											
Rack IA											
Smartmodem1200	1200			Y		FDX/HDX	A/S		103/212A	2 yrs	
Smartmodem1200	1200			Y		FDX/HDX	A/S		103/212A	2 yrs	
Smartmodem2400	2400					FDX	A/S		103/212A	2 yrs	
Smartmodem2400V	2400					FDX	Async		V.22	2 yrs	
Smartmodem9600	9600		Leased line							2 yrs	
Smartmodem9600V	9600					FDX/HDX	A/S		V.32	2 yrs	
Transet 1000											
V-series Enhancer										2 yrs	
Incomm Data Systems 312 459-8881											
100 RM	19.2K					FDX	Async				$248
100 SA	19.2K					FDX	Async				$349
200 RM	19.2K					FDX	A/S				$599
200 SA	19.2K					FDX	A/S				$599
Midget 12	1200		Dial-up	Y		FDX/HDX	Async		212A/103	5 yrs	$139
Midget 2400	2400		Dial-up	Y		FDX/HDX	Async			5 yrs	$199
PL 14.4MD	14.4K		Voice Band			FDX	Sync				$4,995
Turbo 2400	2400		Voice Band	Y		FDX/HDX	A/S	R/S	103/212		$299
Turbo 2400EC	19.2K		Dial-up	Y			Async	R/S	212A/103		$399
Turbo 4800	4800		Dial-up	Y			Async	R/S		5 yrs	$499
Turbo 9600	9600		V.32 Dial	Y			Async	R/S	212A/103	5 yrs	$899
Lan Systems, Inc. 415 566-4798											
LAN-A1	19.2K	10	Short Haul			FDX/HDX	Async	R/S	3001	2 yrs	$68
LAN-A1-8	19.2K	10	Short Haul			FDX/HDX	Async	R/S	3001	2 yrs	$545
LAN-A2	38.4K	5	Short Haul			FDX/HDX	Async	R/S	3001	2 yrs	$79
LAN-MAM8 PLUS	19.2K	10	Short Haul			FDX/HDX	Async	R/S	3001	2 yrs	$395
LAN-ME	64K		Eliminator				A/S	R/S		2 yrs	$225
LAN-S1	38.4K	10.5	Short Haul			FDX/HDX	A/S	R/S	3001	2 yrs	$195
LAN-S2	38.4K	3	Short Haul			FDX/HDX	A/S	R/S	3001	2 yrs	$255
Microcom, Inc. 617 551-1000											
AX/2400	2900			Y			Sync	R/S	103/212A		
AX/2400c	4800			Y			Sync	R/S	103/212A		
AX/9624c	19.2K			Y			A/S	R/S	103/212A		
AX/Chassis											
QX/12K	12K			Y				R/S	103/212A		
QX/V.32c	30K			Y				R/S	103/212A		
Multi-Tech Systems, Inc. 800 328-9717											
MT224AH	2400			Y	Y	FDX/HDX	A/S	S	212A/103	2 yrs	$549
MT224EH	2400			Y	Y	FDX/HDX	A/S	S	212A/103	2 yrs	$599
MT932EA	19.2K			Y		FDX/HDX	A/S	S	212A/103	2 yrs	$1,195
N.E.T. ComDesign Data Communications Group 805 562-3312											
CM-1440	14.4K		Voice Band			FDX/HDX	Sync	R/S	V.27/.33	1 yr	$1,995
CM-4800	4800		Voice Band			FDX/HDX	Sync	R/S	V.27	1 yr	$995
CM-9600	9600		Voice Band			FDX/HDX	Sync	R/S	V.27/.33	1 yr	$1,195
IM-9600	9600		Voice Band			FDX	Sync	R/S	V.27/.29	1 yr	$1,250

MODEMS

Model	Max Baud Rate (bps)	Max Mile Range	Modem Type	Auto Dial	Alternate Voice	Operating Modes	Transmission Type	Rackmount/ Standalone	Compatibility (Bell/CCITT)	Warranty	Price
Optical Data Systems 214 234-6400											
ODS 107	56K	1.6	Fiber Optic				Async				
ODS 108	56K	1.6	Fiber Optic				Async				
ODS 219	2.04M		Fiber Optic				A/S				
ODS 700	1.54M		Fiber Optic				Async		306		
Patton Electronics Company 301 493-9665											
100	19.2K					FDX	Async				$70
101	19.2K					FDX	Async				$80
110	19.2K					FDX	Async				$95
111	19.2K					FDX	Async				$105
112	19.2K					FDX/HDX	Async				$115
113	19.2K					FDX/HDX	Async				$125
120	19.2K					FDX	Sync				$160
121	9600					FDX	Sync				$170
130	9600					FDX/HDX	Sync				$195
131	9600					FDX/HDX	Sync				$210
140	64K					FDX	Sync				$495
200	19.2K						Sync				$165
Plexcom, Inc. 805 522-3333											
209	64K		Fiber Optic			FDX	A/S				$1,190+
401	1.544M		Fiber Optic			FDX	A/S				$1,190+
Prentice Corporation 408 734-9810											
9629/2	9600		Voice Band			FDX	Sync	R			$1,595
9629/2	9600		Voice Band			FDX	Sync	S			$1,695
ALD/2	19.2K					FDX/HDX	Async	R		1 yr	$200
ALD/2	19.2K					FDX/HDX	Async	S		1 yr	$300
HSLD/2	19.2K		Ltd Dist			FDX/HDX	Sync	R		5 yrs	$390
HSLD/2	19.2K		Ltd Dist			FDX/HDX	Sync	S		5 yrs	$490
HSLD/3	64K		Ltd Dist			FDX/HDX	Sync	R			$595
HSLD/3	64K		Ltd Dist			FDX/HDX	Sync	S			$695
P201C	2400		Voice Band		Y	FDX/HDX	Sync	R	201B/C	1 yr	$645
P201C	2400		Voice Band		Y	FDX/HDX	Sync	S	201B/C	1 yr	$745
P212AD	1200		Voice Band	Y		FDX	Async	R	103/212A	5 yrs	$395
P212AD	1200		Voice Band	Y		FDX	Async	S	103/212A	5 yrs	$495
P212ZX	1200		Voice Band	Y	Y	FDX	Async	S	103/212A	1 yr	$325
Processing Innovations, Inc. 714 535-8161											
SAM	1200		Voice Band		Y		Async	S	212/202C	1 yr	$1,295
Racal-Milgo 800 327-4440											
COMLINK 7/75	19.2K	15	Ltd Dist		N		A/S	R/S		1 yr	$460+
LDM-V.35	56K	8.6	Ltd Dist				Sync	R/S	V.35	1 yr	$1,500
Omnimode 14.4FP	14.4K		High Speed	Y	N		A/S	R/S		1 yr	$4,145
Omnimode 1614	16.8K		High Speed	Y	N		A/S	R/S		1 yr	$5,160
Omnimode 96	9600		High Speed	Y	N		A/S	R/S		1 yr	$3,250
RM-1822E/2	19.2K		Dial-up	Y	N	FDX	Async	R/S	103/212A	1 yr	$1,150
RM-1916	19.2K		High Speed	N	N		A/S	R/S		1 yr	$7,600
RM-3296	9.6K		V.32	Y	Y	FDX	A/S	R/S	212A/103	1 yr	$1,275
Rad Data Communications 201 587-8822											
FLM-1		3	Fiber Optic				Async				$700+
MiniModem	19.2K		Short Range				A/S	S			

MODEMS

Model	Max Baud Rate (bps)	Max Mile Range	Modem Type	Auto Dial	Alternate Voice	Operating Modes	Transmission Type	Rackmount/ Standalone	Compatibility (Bell/CCITT)	Warranty	Price
Rad Data Communications 201 587-8822 (continued)											
SRM-1	19.2K					FDX/HDX	A/S				$280
SRM-2	19.2K					FDX/HDX	A/S				$315
SRM-31	19.2K					FDX/HDX	Async				$240
SRM-32	19.2K					FDX/HDX	Async				$280
SRM-4	19.2K					FDX	A/S				$335
SRM-6A	19.2K					FDX	Async				$95
SRM-6AC	19.2K					FDX/HDX	Async				$115
SRM-6D	19.2K					FDX	Async				$70
SRM-6DX	19.2K					FDX	Async				$149
SRM-6H	64K					FDX/HDX	Sync				$495
SRM-6S	19.2K					FDX	Sync				$163
SRM-6SC	19.2K					FDX/HDX	Sync				$200
SRM-7	72K					FDX/HDX	Sync				$720
Raycom Systems, Inc. 303 530-1620											
2605/2606			Fiber Optic		N			R/S		1 yr	$984
SI Technology, Inc. 312 232-8640											
2001	56K	1.5/3*	Fiber Optic	N	N	FDX	Async	S	N	1 yr	$150
2004	56K	1.5/3*	Fiber Optic	N	N	FDX	Sync	S	N	1 yr	$275
2005	56K	1.5/3*	Fiber Optic	N	N	FDX	Async	S	N	1 yr	$225
2010	9600	1.5/3*	Fiber Optic	N	N	FDX	Async	S	N	1 yr	$350
2025	56K	2	Short Haul	N	N	FDX	Async	R/S	N	1 yr	$242
2105	56K	1.5/3*	Fiber Optic	N	N	FDX	Async	S	N	1 yr	$210
2304	56K	1.5/3*	Fiber Optic	N	N	FDX	Sync	R	N	1 yr	$275
2305	56K	1.5/3*	Fiber Optic	N	N	FDX	Async	R	N	1 yr	$225
2505	56K	1.5/3*	Fiber Optic	N	N	FDX	Async	S	N	1 yr	$150
2507	19.2K			N	N	FDX	Async	R/S	N	1 yr	$150
2526	19.2K	1		N	N	FDX	Async	R/S	N	1 yr	
2856	20M	1.5/3*	Fiber Optic	N	N	FDX	Async	S	N	1 yr	$450
2857	10M	1.5/3*	Fiber Optic	N	N	FDX	Async	S	N	1 yr	$450
Telcor Systems Corporation 617 653-3995											
1248MA	4800			Y	Y		Async	S	212A/103	3 yrs	$595
2424MA	2400			Y	Y		Async	S	212A/V.22	3 yrs	$695
2448MA	4800			Y	Y		Async	S	212A/V.22	3 yrs	$795
2496MA	9600			Y	Y	FDX	Async	S	212A/V.22	3 yrs	$895
2938MA	38.4K			Y	Y	FDX	Async	S	212A/V.22	3 yrs	$1,195
Telebit Corporation 415 969-3800											
T1000	9600		Dial-up	Y			Async	S	212A/103J	1 yr	$795
T2000	19.2K		Dial-up	Y			Async	R/S	212A/103J	1 yr	$1,495
T2500	19.2K		Dial-up	Y			A/S	R/S	103J/212A	1 yr	$1,695
TrailBlazer Plus	19.2K		Dial-up	Y			Async	R/S	103J/212A	1 yr	$1,345
Telenetics Corporation 714 779-2766											
24R-MP	2400	N/A	Voice Band	Y	Y	FDX/HDX	A/S	R	103/212A	5 yrs	$745
24S	2400	N/A	Voice Band	Y	Y	FDX	A/S	S	103/212A	5 yrs	$595
24S-MP	2400	N/A	Voice Band	Y	Y	FDX/HDX	A/S	S	103/212A	5 yrs	$795
24S/R	2400	N/A	Voice Band	Y	Y	FDX	A/S	R	103/212A	5 yrs	$545
ED 14.4	14.4K	N/A	Voice Band	N	N	FDX	Sync	R/S		5 yrs	$2,195
ED 19.2	19.2K	N/A	Voice Band	N	N/A	FDX	Sync	R/S		5 yrs	$5,995
ED 9.6	9600	N/A	Voice Band	N	N/A	FDX	Sync	R/S		5 yrs	$1,495

MODEMS

Model	Max Baud Rate (bps)	Max Mile Range	Modem Type	Auto Dial	Alternate Voice	Operating Modes	Transmission Type	Rackmount/ Standalone	Compatibility (Bell/CCITT)	Warranty	Price
Telenetics Corporation 714 779-2766 (continued)											
TC921S-12	1200	N/A	Voice Band	Y	Y	FDX/HDX	A/S	R/S	103/212A	5 yrs	$595
TC921S-24	2400	N/A	Voice Band	Y	Y	FDX/HDX	A/S	R/S	103/212A	5 yrs	$695
Teltone Corporation 800 426-3926											
DCS3	19.2K						A/S			1 yr	
DCS3A/B	19.2K						Async			1 yr	
T-line 3	19.2K		Short Haul				Async			1 yr	
U. S. Robotics, Inc. 312 982-5010											
Courier 1200	1200		Voice Band	Y		FDX/HDX	Async	S	103/212A	2 yrs	$349
Courier 2400	2400		Voice Band	Y		FDX	Async	S	212A	2 yrs	$499
Courier 2400e	2400		Voice Band	Y		FDX	Async	S	212A	2 yrs	$699
Courier HST	14.4K		Voice Band	Y		FDX	Async	R/S	212	2 yrs	$995
Courier HST Dual Std	19.2K			Y		FDX	Async	R/S	212A/107	2 yrs	$1,595
Rackmount 30 MMS	9600		Voice Band	Y		FDX	Async	R	212A	2 yrs	
Universal Data Systems 205 721-8000											
108	300	Unltd		N	N	FDX	Async	R/S	108	1 yr	$425
1450	14.4K	Unltd	Dial-up	Y	Y	FDX/HDX	A/S	R/S	V.29/V.33	1 yr	
202S/T	1200	Unltd		N	Y	FDX	A/S*	R/S	202J	1 yr	$475
2140	2400	Unltd	Dial-up	Y	Y	HDX	Sync	S	201C	1 yr	
2440	2400	Unltd		Y	Y	FDX		R/S	103J/212A	1 yr	$575
2860	4800	Unltd	Dial-up	Y	Y	FDX/HDX	A/S	R/S	201/208	1 yr	
9648T	9600	Unltd	Dial-up	Y	Y	FDX/HDX	A/S	R/S	208A/B	1 yr	$1,995
V3225	9600	Unltd		Y	Y	FDX	A/S	R/S	103J/212A	1 yr	$1,145
Versitron 800 537-2296											
T1	1.544M		Fiber Optic								

MULTIPLEXERS

Model	Control Signals	Modem Support	Max Baud Rate (bps)	Max Input Channels	Local/Remote Loopback	Bus Interface	Transmission Type	Rackmount/ Standalone	Function	Warranty	Price
Algo, Inc. 301 730-7442											
NC 600											$1,495
Astronautics Corporation of America 414 447-8200											
DialMux			19.2K	5	R			S	P-to-P		$1,230
LineMux				5	R			S	P-to-P		$1,545
AT&T Paradyne Corporation 813 530-2000											
2030		Y									
3210		Y									
DCX 840		Y									
DCX 850		Y									
BICC Data Networks, Inc. 508 898-2422											
4610-0							Async	S			
4610-5							Async	S			

MULTIPLEXERS

Model	Control Signals	Modem Support	Max Baud Rate (bps)	Max Input Channels	Local/Remote Loopback	Bus Interface	Transmission Type	Rackmount/ Standalone	Function	Warranty	Price
Black Box Corporation 412 746-5500											
Communication Box II											$1,490
Digital Multiplexer											$1295
LD 470											$545
MX 8											$395
RS232 Fiber Optic											$1,295
Bo-Sherrel Company, Inc. 415 792-0354											
MX-2	N	N	19.2K	8			Async	S	P-to-P	2 yrs	$349
MX-3	N	N	19.2K	8	L		Async	S	P-to-P	2 yrs	$389.95
Camintonn Corporation 714 553-0247											
CM-DHQ11		Y	38.4K			Q-bus	Async	R			
CM-DHV11		Y	38.4K			Q-bus	Async	R			
CM-DHV16-D		Y	38.4K			Q-bus	Async	R			
Canoga-Perkins 818 718-6300											
CMX-320			19.2K	32			A/S			1 yr	$1,795
CMX-3240	Y		76.8K	144	L/R		A/S	S	P-to-P/MP	1 yr	$2,695
CMX-3248	N		1.544M	8			A/S			1 yr	$3,295
CMX-3272	Y		19.2K	144			A/S			1 yr	$2,395
CMX-808			19.2K	8			A/S			1 yr	$895
CMX-816	Y		100K	16			A/S			1 yr	$2,695
Case/Datatel 800 424-4451											
DCP5016			1200	8			Async	R/S			
DCP5016			64K	8			Async	R/S			
DCP5016			64K	16			Async	R/S			
DCP5016			1200	16			Async	R/S			
DCP5032			64K	16			Async	R/S			
DCP5032			64K	8			Async	R/S			
DCP9050	Y		64K	6			Sync	S			
DCP9100			1.544M					R/S			
DCP9800			2048K					S			
Coastcom 415 825-7500											
D/I MUX III	N	Y	1.536M	24	L/R		A/S	R/S		18 m	$2,595
T1M III	N	Y	1.536M	8	L/R		A/S	R/S		18 m	$2,295
Codex Corporation 617 364-2000											
6003 INP	Y	*	9600	8	L/R		Async	R/S	P-to-P	1 yr	$1,250+
6015 INP	Y	Y	9600	10	L/R		A/S	S	P-to-P	1 yr	$1,500+
6216	Y			16	L		A/S	S	P-to-P	1 yr	$4,020+
Computer Products, Inc. 305 974-5500											
GT304	Y		38.4K					R		1 yr	$275
GT309A	Y	N	38.4K	16		Q-bus	Async	R		1 yr	$995
GT312	Y	Y	38.4K	8		Q-bus	Async	R		1 yr	$795
DCB, Inc. 800 637-1127											
Hub 2	N/A	Y	56K	2	L/R		A/S	S		1 yr	$1,095
Hub 4	N/A	Y	56K	4	L/R		A/S	S		1 yr	$1,495
Hub 6	N/A	Y	56K	6	L/R		A/S	S		1 yr	$1,795
SPL 10	N	Y	56K	10	L/R		A/S	S		1 yr	$2,295
SPL 12	N	Y	56K	12	L/R		A/S	S		1 yr	$2,695
SPL 14	N	Y	56K	14	L/R		A/S	S		1 yr	$2,995
SPL 2	N	Y	56K	2	L/R		A/S	S		1 yr	$795

MULTIPLEXERS

Model	Control Signals	Modem Support	Max Baud Rate (bps)	Max Input Channels	Local/Remote Loopback	Bus Interface	Transmission Type	Rackmount/ Standalone	Function	Warranty	Price
DCB, Inc. 800 637-1127 (continued)											
SPL 4	N	Y	56K	4	L/R		A/S	S		1 yr	$1,195
SPL 6	N	Y	56K	6	L/R		A/S	S		1 yr	$1,495
SPL 8	N	Y	56K	8	L/R		A/S	S		1 yr	$1,995
Digital Communications Association 404 442-4000											
110				8				R	P-to-P/MP		$1,995
120				32				R	P-to-P/MP		$4,995
125				16	L			R	P-to-P/MP		$5,795
125				32	L			R	P-to-P/MP		$11,590
205				128							$4,250+
207											$4,995+
CN-1				64				R	P-to-P/MP/BP		$25,000+
CN-2				144				R	P-to-P/MP/BP		$40,000+
NetLink				128				R	P-to-P		$4,395+
NetLink II				128				R	P-to-P		$5,795
Emulex Corporation 714 662-5600											
CS08	Y	Y	57.6K	8		Q-bus	Async			1 yr	$1,000+
CS09	Y	Y	57.6K	16		Q-bus				1 yr	$1,000+
CS11	Y	Y	19.2K			UNIBUS		R		1 yr	$4,100+
CS21/F	Y	Y	19.2K			UNIBUS				1 yr	$2,950+
CS21/H	Y	Y	19.2K			UNIBUS				1 yr	$2,950+
CS21/Z	Y	Y	19.2K			UNIBUS				1 yr	$2,950+
CS23	Y	Y	38.4K			UNIBUS				1 yr	$3,300+
CS32	Y	Y	38.4K			UNIBUS				1 yr	$24,400
QS09	Y	Y	57.6K	16		Q-bus	Async				$2,000
Equinox Systems 800 328-2729											
LM-48				48							$3,100
LM-8				8							$700
Fibermux Corporation 818 709-6000											
FX4400	Y			384	L/R			R/S		1 yr	
Gandalf Data, Inc. 800 722-9638											
DOU 3640	Y	Y	64K		L/R		A/S	R		1 yr	$325
GLM 518	Y	Y	640K	8	L/R		A/S	R/S		1 yr	$800
GLM 528E	Y	Y	1.544M	128	L/R		A/S		P-to-P/MD	1 yr	$3,475
KMUX	Y	Y	38.4K	7	L/R		Sync	R/S			
mMUX 2000		Y	19.2K	8	L/R			R/S		1 yr	$995
MUX 2000	Y	Y	38.4K	32	L/R		Async	R/S		1 yr	$2,000
SwitchMux	Y	Y	19.2K	16	L/R			R/S			$2,950
GEN/COMP, Inc. 617 828-2008											
2033		Y	19.2K			UNIBUS	Async	R		2 yrs	$1,500
2036-01		Y	38.4K	16		UNIBUS	Async	R		2 yrs	$1,600
2036-02		Y	38.4K			UNIBUS	Async	R		2 yrs	$2,200
2036-04		Y	38.4K			UNIBUS	Async	R		2 yrs	$2,450
2036-05		Y	38.4K			UNIBUS	Async	R		2 yrs	$1,750
2036-06		Y	38.4K			UNIBUS	Async	R		2 yrs	$2,450
2136	Y	Y	38.4K	16		Q-bus	Async	R		2 yrs	$1,600
ICS Datacom 408-263-4844											
2360			38.4K								$1,195

MULTIPLEXERS

Model	Control Signals	Modem Support	Max Baud Rate (bps)	Max Input Channels	Local/Remote Loopback	Bus Interface	Transmission Type	Rackmount/ Standalone	Function	Warranty	Price
Incomm Data Systems 312 459-8881											
LocalMux 500S			9600	8			Async	S	P-to-P		$599
SmartMux			9600	14			Async	S	P-to-P		$799+
Lan Systems, Inc. 415 566-4798											
LAN-MUX16A	Y	N	19.2K	16	L/R		Async	R/S		2 yrs	$795
LAN-MUX8A	Y	N	19.2K	8	L/R		Async	R/S		2 yrs	$445
LAN-MUX8A PLUS	Y	N	19.2K	8	L/R		Async	R/S		2 yrs	$545
MCS Computer Products, Inc. 612 770-5232											
CM-DHV11		Y	38.4K				Async				$650+
MDB Systems, Inc. 714 998-6900											
MDB-DHU-MP						UNIBUS					$4,995
MDB-DZ11-A						UNIBUS	Async				$1,950
MDB-DZ11-A/422-X						UNIBUS	Async				$2,100
MDB-DZ11-A/C-X						UNIBUS	Async				$2,100
MDB-DZ11-B						UNIBUS	Async				$1,500
MDB-DZ11-E						UNIBUS	Async				$3,110
MDB-DZ11-M						UNIBUS	Async				$1,300
MDB-F-A32-CKA				32		UNIBUS					$3,835
MDB-F-DHU-A32				32		UNIBUS					$6,495
MDB/MLSI-PBI-A32				32		UNIBUS					$2,850
MUX-C-32D		N	38.4K	32		UNIBUS	Async				
MUX-C-32D/T		N	38.4K	32		UNIBUS	Async				
MUX-C-32M		Y	38.4K	32		UNIBUS	Async				$6,495
MUX-R-32D		N	38.4K	32		UNIBUS	Async	R			$6,744
MUX-R-32D/T		N	38.4K	32		UNIBUS	Async	R			
MUX-R-32M		Y	38.4K	32		UNIBUS	Async	R			$7,619
MUX-R-64D/T		N	38.4K	64		UNIBUS	Async	R			
MUX-T-32D		N	38.4K	32		UNIBUS	Async	S			$6,619
MUX-T-32D/T		N	38.4K	32		UNIBUS	Async	S			
MUX-T-32M		Y	38.4K	32		UNIBUS	Async	S			$7,495
MUX-T-64D/T		N	38.4K	64		UNIBUS	Async	S			
Method Systems, Inc. 800 533-6116											
Mini-Mux	*		9600	8	L/R		Async	S		5 yrs	$395
Micom Communications Corporation 805 583-8600											
Micom Box Type 2	Y	Y	19.2K		L/R		A/S	S	P-to-P/MP	3 yrs	$1,540+
Micom Box Type 3	Y	Y	19.2K	16	L/R		A/S	S	MP	3 yrs	$1,960+
Motorola Information Systems 416 793-5700											
6003 INP		*					Async		P-to-P		
6015 INP		*					Async				
6740 DCP									P-to-P		
Multi-Tech Systems, Inc. 800 328-9717											
MultiMux32		Y	14.4K	32			Async				$10,295
N.E.T. ComDesign Data Communications Group 805 562-3312											
LS2000	Y	Y	19.2K	32	L/R		Async	R/S	P-to-P/MP	1 yr	$2,800+
RS2000	Y	Y	19.2K	32	L/R		Async	R/S	P-to-P/MP	1 yr	$3,600+
SPX VMS		Y	10M	256		U/Q/B	Async			1 yr	
SPX/30	Y	Y	19.2K	72			Async	R/S		1 yr	$3,750+
SPX/5	Y	Y	9600	8	L/R		Async	S		1 y	$1,195+
SPX/50	Y	Y	9600	80	L/R		Async	R/S	P-to-P	1 yr	$4,450+

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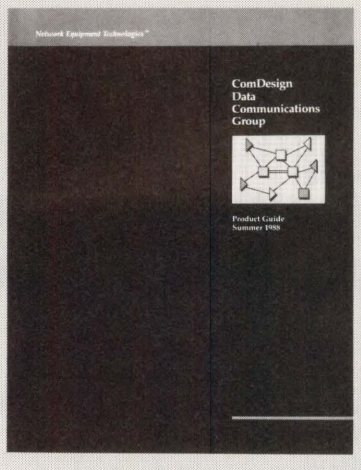
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MULTIPLEXERS

Model	Control Signals	Modem Support	Max Baud Rate (bps)	Max Input Channels	Local/Remote Loopback	Bus Interface	Transmission Type	Rackmount/ Standalone	Function	Warranty	Price
N.E.T. ComDesign Data Communications Group 805 562-3312 (continued)											
TS1000	Y	Y	19.2K	32	L/R		Async	R/S	P-to-P/MP	1 yr	$2,100+
Optical Data Systems 214 234-6400											
ODS 304			20M		L/R						
ODS 708			1.544M	8	L/R			R/S			
ODS 730			1.544M		L/R						
Patton Electronics Company 301 493-9665											
330				2							$295
340				2							$220
354			9600	4			Async				$295
358			9600	8			Async				$545
Plexcom, Inc. 805 522-3333											
1904			64K	4			A/S	R/S	P-to-P		$895
1908			19.2K	24			A/S	R/S	P-to-P		
1916			19.2K	48			A/S	R/S	P-to-P		
1932			19.2K	96			A/S	R/S	P-to-P		$3,195
4208					L/R			R/S			
5000			38.4K	4			A/S	R/S	P-to-P		$1,295
5000			38.4K	16			A/S	R/S	P-to-P		$1,895
5000			38.4K	32			A/S	R/S	P-to-P		$3,195
9600			57.6K	64	L/R		A/S	R/S	P-to-P		$3,500+
Rad Data Communications 201 587-8822											
DVI				3							$145
KiloMux				6			A/S	S	P-to-P		$1,600
KiloMux 56			56K	6			A/S	S	P-to-P		$1,450
MAM-A				2							$295
MAM-S				2			A/S				$395
MMM				2			A/S				$350
MSM				2				S	P-to-P		$220
RCMCoax				2				S	P-to-P		$145
STM 4	Y		19.2K	4			A/S				$595
STM-24			19.2K	24			A/S				$1,950
STM-8			19.2K	8			A/S				$950
TRIMLINK 400			19.2K	4			Sync				$3,950
Raycom Systems, Inc. 303 530-1620											
5100/5110	Y	Y	19.2K	32	L/R			R/S	Diagnostic	1 yr	$2,850+
SI Technology, Inc. 312 232-8640											
1000			10M	48	L/R		A/S	R/S	P-to-P	1 yr	$1,500+
2006	N		19.2K	8	L/R		A/S	R/S	P-to-P	1 yr	$1,500+
2016	N		19.2K	16	L/R		Async	R/S	P-to-P	1 yr	$2,000
Sigma Information Systems 714 630-6553											
SCD-DHV11/16	Y	N	38.4K	16		Q-bus	Async	R		1 yr	$780
SCD-DHV11/8	Y	Y	38.4K	8		Q-bus	Async	R		1 yr	$673
SCD-DZV11	Y	Y	19.2K	8		Q-bus	Async	R		1 yr	$867
Solana Electronics 619 573-0800											
SE 822	Y	N	9600	8	L/R			S	P-to-P	2 yrs	$495
SE 822-CL	Y	N	9600	8	L/R			S	P-to-P	2 yrs	
Summus Computer Systems 713 492-6611											
SUM-COM		Y	19.2K	256	L/R	UNIBUS	A/S	R/S		1 yr	

MULTIPLEXERS

Model	Control Signals	Modem Support	Max Baud Rate (bps)	Max Input Channels	Local/Remote Loopback	Bus Interface	Transmission Type	Rackmount/ Standalone	Function	Warranty	Price
Summus Computer Systems 713 492-6611 (continued)											
SUM-DHV16		Y	38.4K			Q-bus		R		1 yr	
Systech Corporation 619 453-8970											
HPS-6236											$1,185
HPS-6237											
Telebyte Technology, Inc. 516 423-3232											
570		Y	19.2K	8	L		Sync	R/S		1 yr	$548
571		Y	19.2K	8	L		Sync	R/S		1 yr	$695
572		Y	19.2K	8		UNIBUS	Sync	R		1 yr	$395
Teltone Corporation 800 426-3926											
M-825-01			19.2K	32	L		Async	R			
M-825-02			19.2K	32	L		Async	S			
Max1											
Max1 T1				32					P-to-P/MP		
Universal Data Systems 205 721-8000											
1406T	Y	Y	14.4K	6	Y			S		1 yr	$3,495
1408S	Y	Y	14.4K	8	Y			S	P-to-P	1 yr	$3,995
9604T	Y	Y	9600	4	Y			S		1 yr	$2,495
9608S	Y	Y	9600	8	Y			S			$2,695
SM-4A	Y	Y	19.2K	4	Y		Sync	R/S		1 yr	$1,160
SM-8A	Y	Y	19.2K	8	Y		Sync	R/S		1 yr	$1,550
TDM/MR	Y	Y	38.4K	24	Y		A/S	S		1 yr	
Webster Computer Corporation 408 745-0660											
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Xylogics, Inc. 617 272-8140											
Interface Multiplexer				16	L			R	P-to-P		$2,495

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Communication Controllers

Able Computer

■ **DH/DM**
19.2Kbps • FDX Operating Mode • UNIBUS Supported • $2,600
High-speed communication device, providing programmable DMA capability, split baud rates, and modem control on all 16 lines, which may be independently programmed. This device emulates the TX ports on a DEC DMF32 and interfaces to the DEC YC driver. Current Loop, Telco, RS232/422 panel options are available. Modem signals include carrier, ring and data terminal ready.

■ **DHU/HS**
38.4Kbps • FDX Operating Mode • UNIBUS Supported • $2,600
Same as VMZ/HS. However, the DHU/HS offers 38.4Kbps baud capability regardless of operating system constrictions.

■ **DZ/16**
19.2Kbps • FDX Operating Mode • UNIBUS Supported • $2,500
The DZ/16 is a 16-line asynchronous communication controller and emulates the functions of two DEC DZ11 controllers. The data format is program-selectable and breaks may be generated and detected on each communication line. Current Loop, Telco, RS232/422 panel options are available. Modem signals include carrier, ring and data terminal ready. Supports the UNIX operating system.

■ **VMZ/HS**
38.4Kbps • FDX Operating Mode • UNIBUS Supported • $2,600
The VMZ/HS is a very high-speed communication device, providing programmable DMA capability, split baud rates, and modem control on all 16 lines, which may be independently programmed. This device emulates the TX ports on a DEC DMF32 and it interfaces to the DEC YC driver. Current Loop, Telco, RS232/422 panel options are available. Modem signals include carrier, ring and data terminal ready.

Camintonn Corporation

■ **CM-DHV11-C**
38.4Kbps • Q-bus Supported
The CM-DHV11-C is 100% compatible with DEC DHV11. The last port may be configured as a DLV11 console port on PDP-11 systems. The 38.4Kbps baud rate may be remapped.

■ **CM-DHV16-D**
38.4Kbps • UNIBUS/Q-bus Supported
The CM-DHV16-D emulates two DEC DHV11 8-line controllers. Data-only leads on all 16 ports. Distribution and 9-pin options are available. The 38.4Kbps baud may be remapped.

■ **CM-DLV11-J**
38.4Kbps • UNIBUS/Q-bus Supported
Runs transparently to DEC software. Lines may be independently designated for EIA signal compatibility and configured for baud rate and data bit formats.

■ **CM-DHQ11**
38.4Kbps • Q-bus Supported
The CM-DHQ11 is 100% compatible with DEC DHQ11. Ultra fast design and DHU emulation provide very low CPU overload. For maximizing number of users, 38.4Kbps baud rate may be remapped.

Communication Machinery Corporation (CMC)

■ **ENP-40**
UNIBUS Supported • $3,500
The ENP-40 is an Ethernet Node Processor.

DILOG

■ **CQ1610**
38.4Kbps • FDX Operating Mode • Q-bus Supported • $1,450

■ **CQ1620**
38.4Kbps • FDX Operating Mode • Q-bus Supported • $1,100
The CQ1610 and 1620 feature 32-character transmit buffers for each data channel and 256-character receive buffers for each emulation.

■ **CU1710**
38.4Kbps • FDX Operating Mode • UNIBUS Supported • $2,500
The CU1710 model is a terminal, modem, and printer controller. Please consult factory for details on available distribution panels.

Dyna Five Corporation

■ **D5-CI100-4**
38.4Kbps • Q-bus Supported

■ **D5-CI100-8**
19.2Kbps • Q-bus Supported

■ **D5-CI101-16**
38.4Kbps • Q-bus Supported

■ **D5-CI101-8**
38.4Kbps • Q-bus Supported
The D5-CI101-16 and D5-CI101-8 feature full modem control on all channels and DMA- or single-character outputs.

Forney International, Inc.

■ **ECS 1200**
1Mbps • UNIBUS/Q-bus/Bibus Supported
High-speed DMA access for VAX series computers to Forney's distributed control system.

Intel Corporation

■ **FastPath 9770**
UNIBUS/Q-bus Supported • $50,000+
Connects an IBM System/370 directly to a DEC VAX or MicroVAX II system. Utilizes Flexlink software that provides bidirectional connectivity capabilities, including high-speed file transfer, protocol conversion, terminal emulation, and remote printing, logon, task activation and file editing.

MDB Systems, Inc.

■ **MDB-DR11-W**
UNIBUS Supported • $1,345
Module has true DEC DR11-W bus interface for a 50 foot distance. Exclusive MDB DMA throttle allows user to tailor data transfer rates to system requirements. Includes two sets of I/O connectors.

■ **MLSI-DR11-W PLUS**
Q-bus Supported • $1,250
Module has true DEC DR11-W bus interface for a 50 foot distance. Exclusive MDB DMA throttle allows user to tailor data transfer rates to system requirements. Features DRV11-WA compatibility mode.

■ **MLSI-WLL11**
UNIBUS Supported • $895
This model converts DR11-W TTL signals to RS422 signals.

■ **MV-DR11-W**
Q-bus Supported • $1,100
Module has true DEC DR11-W bus interface for a 50 foot distance. Exclusive MDB DMA throttle allows user to tailor data transfer rates to systems requirements. Includes two sets of I/O connectors.

The Logical Company

■ **CCQ-1100**
38.4Kbps • FDX Operating Mode • Q-bus Supported • $795
Eight RS232/423 asynchronous lines on a dual-width Q-bus controller with a full modem. Software compatible with DEC operating systems and diagnostics.

■ **CCQ-1101**
38.4Kbps • FDX Operating Mode • Q-bus Supported • $795
Sixteen RS232/423 asynchronous data-only lines on a dual-width Q-bus controller. Software compatible with DEC operating systems and diagnostics.

■ **CCQ-1400**
19.2Kbps • FDX Operating Mode • Q-bus Supported • $995
Eight RS232 asynchronous lines on a single Q-bus module emulating a DEC DH11 and DM11BB. Multiple panel options are available.

■ **CCQ-1401**
38.4Kbps • FDX Operating Mode • Q-bus Supported • $995
Eight RS232 asynchronous lines on a single Q-bus module emulating either a DHU or DHV. Multiple panel options are available.

■ **CCU-1000**
38.4Kbps • FDX Operating Mode • UNIBUS Supported • $1,595
Sixteen asynchronous lines on a single UNIBUS module emulating two DM32 devices at four times the throughput. Multiple panel options available.

■ **CCU-1100**
38.4Kbps • FDX Operating Mode • UNIBUS Supported • $1,595
Sixteen asynchronous lines on a single UNIBUS module emulating a DHU at four times the throughput. Multiple panel options available.

■ **CCU-1200**
9600bps • FDX Operating Mode • UNIBUS Supported • $1,595
Sixteen RS232 asynchronous lines on a single UNIBUS module emulating two DEC DZ11-E devices in half the space at half the power. Multiple panel options available.

■ **CCU-1300**
9600bps • FDX/HDX Operating Mode • UNIBUS Supported • $1,000
Four-line RS232 asynchronous controller emulating four DEC DL11-B devices on a single quad-size UNIBUS modeule.

■ **CCU-1301**
9600bps • FDX/HDX Operating Mode • UNIBUS Supported • $1,000
Four-line 20 MA current loop asynchronous controller emulating four DEC DL11-C devices on a single quad-size UNIBUS module.

■ **CCU-1302**
9600bps • FDX/HDX Operating Mode • UNIBUS Supported • $1,000
Four-line RS232 asynchronous controller emulating four DEC DL11-E devices on a single UNIBUS module with full modem control.

Xyplex, Inc.

■ **Host Interface Unit**
UNIBUS Supported • $3,700
A terminal communication controller.

Communication Processors

3Com Corporation

■ **GS/1-X.25**
8 Supported Port(s)

Advanced Computer Communications (ACC)

■ **ACP 5100**
1 Supported Port(s) • 1.544Mbps • 256K-1MBytes • Q-bus Supported • $4,200
The ACP 5100 is a high speed communication processor for the MicroVAX II or MicroVAX 3000 CPUs. Implements CCITT recommendation X.25 level 2 (HDLC/LAPB).

■ **ACP 5250**
1 Supported Port(s) • 300Kbps • Q-bus Supported • $4,200
The ACP 5250 enhances the MicroVAX environment by offloading communication protocol handling and eliminating character-at-a-time interrupts to the host.

■ **ACP 6100**
1 Supported Port(s) • 1.544Mbps • 256K-1MBytes • UNIBUS Supported • $6,490
The ACP 6100 is a high-speed communication processor for DEC VAX CPUs. Implements CCITT recommendation X.25 level 2 (HDLC/LAPB).

■ **ACP 6250**
1 Supported Port(s) • 1.5Mbps • $6,490
The ACP 6250 has higher throughput due to the QUADbus architecture. It centers on a large four-port RAM that is connected to four independent buses controlled by the microprocessor.

cisco Systems, Inc.

■ **CSC/1**
32 Supported Port(s) • 2Mbps
Uses the MC68020 microprocessor which is especially suited for gateways handling large data volumes and for complex gateway configurations. Optional non-volatile

memory is available for configuration retention.

■ **CSC/2**
32 Supported Port(s) • 64Kbps
Provides up to two interfaces and protocol support for both the DDN X.25 standard and DDN 1822-J, also known as HDH. This board also provides up to two Ethernet interfaces.

COMMNETICS, INC.

■ **CN-2000**
48 Supported Port(s) • $150,000
Accsses up to six incompatible databases simultaneously. The need for repetitive sequential link-ups is eliminated.

DIGITAL COMMUNICATIONS ASSOCIATION

■ **DPAX 1100**
64 Supported Port(s) • 72Kbps • $4,595
The DPAX 1100 operates as a CCITT X.3 PAD processor for asynchronous data.

■ **DPAX 2100**
80 Supported Port(s) • 72Kbps • $5,190+
The DPAX 1100 operates as a CCITT X.3 PAD processor for asynchronous data.

GEN/COMP, INC.

■ **2081**
1Mbps • $3,000
The 2081 emulates the DEC PCL11.

INCOTEL, INC.

■ **IMX-700**
500 Supported Port(s) • 56Kbps • 8MBytes • Bibus Supported • $150,000
The IMX-700 includes a software license.

■ **Micro IMX-700**
128 Supported Port(s) • 56Kbps • 5MBytes • Q-bus Supported • $75,000
The Micro IMX-700 includes a software license and supports the MicroVAX II or 3000 Series.

LANTEK

■ **BBMASTER**
240 Supported Port(s) • 2.4Mbps • Q-bus Supported • $2,800
BBMASTER provides a powerful solution for performance-sensitive distributed applications. BBMASTER implements RS485 SDLC communications over twisted pair wire and supports BITBUS protocols for VMS.

MDB SYSTEMS, INC.

■ **JFEP-11**
512KBytes • UNIBUS Supported • $4,950
Designed for PDP-11 systems and is equipped with software that supports the RT-11 and TSX-Plus operating systems.

■ **TurboMux**
32 Supported Port(s) • 38.4Kbps • 512KBytes • UNIBUS Supported • $6,455
The TurboMux emulates the DHU11 and features a microprocessor module and a terminal adapter unit. Eight terminal adapter units may be cascaded together to provide support for up to 256 ports.

MICROTRONIX SYSTEMS, LTD.

■ **KXJ-X.25**
128 Supported Port(s) • 56Kbps • 64KBytes • Q-bus Supported • $9,900
Reduces the number of interrupts on the MicroVAX and relieves the host from communication processing loads.

■ **LSI-X.25**
5 Supported Port(s) • 56Kbps • 64KBytes • UNIBUS Supported • $9,900

RACAL-MILGO

■ **Omnimux PNP-200**
34 Supported Port(s) • .5Mbps • $19,300

■ **Omnimux PNP-4000**
480 Supported Port(s) • 2Mbps • $69,260

■ **Omnimux PNP-5000**
448 Supported Port(s) • 4Mbps • $99,650

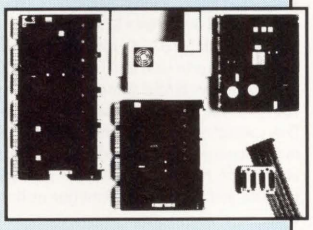
■ **Omnimux PNP-600**
192 Supported Port(s) • 1Mbps • $38,800
The Omnimux PNPs are high-performance devices designed for communication-intensive applications; may be connected to a variety of private circuits, national and international public data networks, and dedicated X.25 host computer equipment.

SIEMENS DATA SWITCHING SYSTEMS

■ **EDX-P**
1008 Supported Port(s) • 9600bps • 4MBytes

SIMPACT ASSOCIATES, INC.

simpact



■ **ICP1600**
8 Supported Port(s) • 614Kbps • 256KBytes • UNIBUS Supported • $6,000
The Intelligent Communication Processor (ICP) series is the hardware platform for Simpact's array of off-the-shelf and custom serial communication interfaces. Offloading interrupt-intensive communication tasks from the DEC host, this family of multiport, programmable front-end processors supports all popular DEC bus architectures and operating systems. Because the ICP is programmable, it is able to execute a wide variety of protocols for applications including wide area network connections, multivendor connectivity, and real-time data communications. Off-the-shelf Communication Protocol Interfaces (CPIs) that utilize the ICP are available for the following protocols: X.25, HDLC, ADCCP ABM, ADCCP NRM, SDLC, DDCMP, X.25 DDN, BSC 2780/3780, BSC 3270, Financial Market Protocols, HASP, SWIFT ad CHIPS, Async, SNA and AUTODIN. In addition, the ICP may be programmed for unique protocol software with Simpact's Software Development Toolkit. The UNIBUS-compatible ICP1600 provides eight independently programmable, full duplex serial communication ports, each individually configurable for line speed and clock source.

■ **EXC1612**
12 Supported Port(s) • 9600bps • $2,000
The EXC1612 provides twelve additional full-duplex serial communication ports for Simpact's UNIBUS and Q-bus compatible ICP1600, ICP1622, and ICP1622T.

■ **ICP1622**
4 Supported Port(s) • 614Kbps • 512KBytes • Q-bus Supported • $3,600
The Q-bus-compatible ICP1622 provides four independently programmable, full duplex, serial communication ports, each individually configurable for line speed and clock source.

■ **ICP1622T**
4 Supported Port(s) • 614Kbps • 512KBytes • Q-bus Supported • $4,975
The MicroVAX 3000-compatible ICP1622T provides four independently programmable communication ports, each individually configurable for line speed and clock source.

■ **ICP1632**
4 Supported Port(s) • 1.544Mbps • 1MBytes • Bibus Supported • $8,000
The VAX Bibus-compatible ICP1632 provides four high-performance, independently programmable, full duplex, serial communication ports, each individually configurable for line speed and clock source.

■ **ICP3212**
12 Supported Port(s) • Q-bus Supported • $4,200
The EXC3212 provides twelve additional full-duplex serial communication ports for Simpact's Q-bus compatible ICP3212.

■ **ICP3222**
4 Supported Port(s) • 1.544Mbps • Q-bus Supported • $5,600
The Q-bus-compatible ICP3222 is targeted at demanding applications that require high data throughput, complex on-board processing, and concurrent operation. Single-line data rates in excess of 1Mbps are accomplished as well as simultaneous, highly efficient connectivity on all four lines. The ICP3222 is based on Motorola's 32-bit microprocessor, the 68020, and features a dual-bus architecture, independent memories, and a full complement of DMA devices.

SOFTWARE RESULTS CORPORATION

■ **COMBOARD/SNA-1251**
1 Supported Port(s) • 64Kbps • 256KBytes • UNIBUS Supported • $12,700+

■ **COMBOARD/SNA-1252**
1 Supported Port(s) • 64Kbps • 256KBytes • Q-bus Supported • $10,900+
Combination hardware and software solution that provides VAX users 3270 emulation and/or a 3770 RJE link to mainframes. COMBOARD supports VMS and ULTRIX with speeds up to 64Kbps.

■ **COMBOARD/SNA-451**
1 Supported Port(s) • 256KBytes • UNIBUS Supported • $7,000+
The COMBOARD/SNA combines hardware and software allowing VAX users an interactive access or a high-volume remote job entry link to IBM and other mainframe computers. Within this environment, VT100-compatible terminals emulate IBM 3278 terminals, thereby providing access to the IBM/SNA network. It supports VMS and ULTRIX operating systems.

■ **COMBOARD/SNA-651**
1 Supported Port(s) • 64Kbps • 256KBytes • UNIBUS Supported • $9,400+

■ **COMBOARD/SNA-652**
1 Supported Port(s) • 64Kbps • 256KBytes • Q-bus Supported • $6,100+

■ **COMBOARD/SNA-751**
1 Supported Port(s) • 64Kbps • 256KBytes • UNIBUS Supported • $11,500+

■ **COMBOARD/SNA-752**
1 Supported Port(s) • 64Kbps • 256KBytes • Q-bus Supported • $9,900+
Combination hardware and software solution that provides VAX users 3270 emulation and/or a 3770 RJE link to mainframes. COMBOARD supports VMS and ULTRIX with speeds up to 64Kbps.

TALON TECHNOLOGY CORPORATION

■ **MaxComm/QB**
1 Supported Port(s) • 2Mbps • 512KBytes • Q-bus Supported • $7,500
MaxComm/QB is a high-speed communication coprocessor for the DEC MicroVAX and MicroPDP-11 computers. It communicates with other MaxComm/QB and UB coprocessors. Also supports X.25 firmware.

■ **MaxComm/UB**
1 Supported Port(s) • 2Mbps • 512KBytes • UNIBUS Supported • $7,500
MaxComm/UB is a high-speed communication coprocessor for DEC VAX and PDP-11 computers. It is a direct replacement for the DEC DMR11 controller featuring DES encryption. Also supports X.25 LAPB firmware.

TRI-DATA SYSTEMS, INC.

■ **Netway 200**
32 Supported Port(s) • 19.2Kbps • 256KBytes • $7,500

VITALINK COMMUNICATIONS CORPORATION

■ **TransLINK**
8 Supported Port(s) • 1Mbps • 1MBytes • $10,000

XYPLEX, INC.

■ **BI-FEP**
Bibus Supported • $7,500

■ **XP-UN64-A**
64 Supported Port(s) • $3,700

COMMUNICATION PROTOCOL INTERFACES

INTERLAN INC.

■ **NP629**
$3,995
With the NP629, PCs are able to exchange files with heterogeneous TCP/IP hosts and access data and applications on a Novell NetWare server. This TCP Gateway allows a user on any Novell NetWare subnet to simultaneously communicate with DEC VAX systems, under VMS and ULTRIX operating systems, and with other hosts on an Ethernet backbone.

Local Data

■ **DataLynx/3174**
4 Supported Port(s) • $3,000

■ **DataLynx/3174**
8 Supported Port(s) • $4,000

■ **DataLynx/3174**
12 Supported Port(s) • $5,000

■ **DataLynx/3174**
16 Supported Port(s) • $6,000

■ **DataLynx/3174**
24 Supported Port(s) • $8,000

■ **DataLynx/3174**
32 Supported Port(s) • $10,000
The DataLynx Series connects non-IBM devices to IBM hosts with cables, modems and public or private X.25 networks. Feature asynchronous dial-in modes, up to 768KB RAM, 16KB EEPROM and up to 256KB PROM.

Method Systems, Inc.

■ **PCT-100**
2 Supported Port(s) • $495
User-programmable serial device that solves asynchronous interface incompatibilities with an in-line RS232 protocol and data translator.

Micom Communications Corporation

■ **MB3-SPC**
4-16 Supported Port(s) • $2,885+
Connects to both IBM 3270 and asynchronous hosts allowing the configuration of four asynchronous host channels to the device, permitting terminals to switch between 3270 emulation and any of the four channels.

Purvis Systems, Inc.

■ **Q-bus/NTDS**
Q-bus Supported • $3,400
MIL-STD-1397 NTDS interface for 16- and 32-bit, full duplex, parallel, data transfers. Differential line receivers are standard for Type B (NTDS-FAST) and Type C (ANEW). I/O drivers, users manuals and test and installation software are included.

■ **UNIBUS/NTDS**
UNIBUS Supported • $5,400
MIL-STD-1397 NTDS interface for 16- and 32-bit, full duplex, parallel data transfers. Differential line receivers are standard for Type B (NTDS-FAST) and Type C (ANEW). I/O drivers, users manuals, and test and installation software are included.

Racal-Milgo

■ **TCI 551VCC/U**
1 Supported Port(s) • $8,890
Accepts input in a clear channel format and converts this data into T-1-compatible D4 formatted DSI data for transmission over the public network digital system.

Simpact Associates, Inc.

■ **CPI 10000/BSC 2780/3780**
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $11,000+
The CPI 10000/BSC 2780/3780 connects UNIBUS-based hosts to non-DEC systems including System 36/38 CPUs and IBM 2780/3780 RJE stations. The interface improves host efficiency and achieves high data throughput.

■ **CPI 10010/BSC 2780/3780**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPI 10010/BSC 2780/3780 connects Q-bus-based hosts to non-DEC systems including System 36/38 CPUs and IBM 2780/3780 RJE stations. Offloading the BCS protocol from the host, the interface improves host efficiency and achieves high data throughput. Host-resident file transfer allows files to be sent and received across the BSC line.

■ **CPI 10020/BSC 2780/3780**
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $13,500
The CPI 10020/BSC 2780/3780 connects VAX BIbus hosts to non-DEC systems including System 36/38 CPUs and IBM 2780/3780 RJE stations. The interface improves host efficiency and achieves high data throughput.

■ **CPI 10030/BSC 2780/3780**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPI 10030/BSC 2780/3780 connects Q-bus-based hosts to non-DEC systems including System 36/38 CPUs and IBM 2780/3780 RJE stations. Offloading the BCS protocol from the host, the interface improves host efficiency and achieves high data throughput. Host-resident file transfer allows files to be sent and received across the BSC line.

■ **CPI 10100/BSC 3270**
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $9,000
The CPI 10100/BSC 3270 connects UNIBUS-based hosts to non-DEC systems including System 36/38 CPUs and IBM 2780/3780 RJE stations. The interface improves host efficiency and achieves high data throughput.

■ **CPI 10110/BSC 3270**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $5,600+
The CPI 10110/BSC 3270 connects Q-bus-based hosts to non-DEC systems including System 36/38 CPUs and IBM 2780/3780 RJE stations. The interface improves host efficiency and achieves high data throughput.

■ **CPI 10120/BSC 3270**
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $11,000
The CPI 10120/BSC 3270 connects VAX BIbus-based hosts to non-DEC systems including System 36/38 CPUs and IBM 2780/3780 RJE stations. The interface improves host efficiency and achieves high data throughput.

■ **CPI 10130/BSC 3270**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $5,600+
The CPI 10130/BSC 3270 connects Q-bus-based hosts to non-DEC systems including System 36/38 CPUs and IBM 2780/3780 RJE stations. The interface improves host efficiency and achieves high data throughput.

■ **CPI 10200/FMP**
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $11,100+
The CPI 10200/FMP connects UNIBUS-based hosts to systems that broadcast stock, bond and commodity information. A single interface accepts data from SIAC, NASDAQ, OPRA, NYSE, NYFE, and CBOT.

■ **CPI 10210/FMP**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPI 10210/FMP connects Q-bus-based hosts to systems that broadcast stock, bond and commodity information. A single interface accepts data from SIAC, NASDAQ, OPRA, NYSE, NYFE, and CBOT.

■ **CPI 10220/FMP**
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $13,500
The CPI 10220/FMP connects VAX BIbus-based hosts to systems that broadcast stock, bond and commodity information. A single interface accepts data from SIAC, NASDAQ, OPRA, NYSE, NYFE, and CBOT.

■ **CPI 10230/FMP**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPI 10230/FMP connects Q-bus-based hosts to systems that broadcast stock, bond, and commodity information. A single interface accepts data from SIAC, NASDAQ, OPRA, NYSE, NYFE, and CBOT.

■ **CPI 10300/HASP**
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $11,100+
The CPI 10300/HASP connects UNIBUS-based systems to IBM RJE systems. A multi-leaving feature allows multiple data streams to be transferred over a single line for efficient line utilization.

■ **CPI 10310/HASP**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPI 10310/HASP connects Q-bus-based systems to IBM and other non-DEC systems. The HASP protocol is used by IBM Remote Job Entry stations to allow flow control of individual data streams. A multi-leaving feature allows multiple data streams to be transferred over a single point-to-point line for efficient line utilization.

■ **CPI 10320/HASP**
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $13,500
The CPI 10320/HASP connects VAX BIbus based systems to IBM RJE systems. A multileaving feature allows multiple data streams to be transferred over a single line for effiecient line utilization.

■ **CPI 10330/HASP**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPI 10330/HASP connects Q-bus-based systems to IBM and other non-DEC systems. The HASP protocol is used by IBM Remote Job Entry stations to allow flow control of individual data streams. A multileaving feature allows multiple data streams to be transferred over a single point-to-point line for efficient line utilization.

■ **CPI 10400**
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $11,100+
The CPI 10400 connects UNIBUS-based systems to the SWIFT and CHIPS networks and includes ready-to-run applications that perform Level I testing for protocol conformance to both networks.

■ **CPI 10410**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPI 10410 connects Q-bus-based systems to the SWIFT and CHIPS networks and includes ready-to-run applications that perform Level I testing for protocol conformance to both networks.

■ **CPI 10420**
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $13,500
The CPI 10420 connects VAX BIbus-based systems to the SWIFT and CHIPS networks and includes ready-to-run applications that perform Level I testing for protocol conformance to both networks.

■ **CPI 10430**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPI 10430 connects Q-bus-based systems to the SWIFT and CHIPS networks and includes ready-to-run applications that perform Level I testing for protocol conformance to both networks.

■ **CPI 11000/Async**
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $9,000
The CPI 11000/Async provides UNIBUS-based systems with extremely flexible asynchronous communication capabilities. The interfaces are programmable, and communication lines are independently configurable for a variety of parameters.

■ **CPI 11010/Async**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $5,600
The CPI 11010/Async provides Q-bus-based systems with extremely flexible asynchronous communication capabilities. The interfaces are programmable, and communication lines are independently configurable for a variety of parameters.

■ **CPI 11020/Async**
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $11,000
The CPI 11020/Async provides VAX BIbus-based systems with extremely flexible asynchronous communication capabilities. The interfaces are programmable, and communication lines are independently configurable for a variety of parameters.

■ **CPI 11030/Async**
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $5,600
The CPI 11030/Async provides Q-bus-based systems with extremely flexible asynchronous communication capabilities. The interfaces are programmable, and communication lines are independently configurable for a variety of parameters.

■ **CPI 12010/SNA**
2 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $8,975+
The CPI 12010/SNA provides Q-bus-based systems with on-line access to IBM hosts, batch file transfers, printing of IBM files on local printers, and building of VAX applications that integrate data from the remote IBM host. Interfaces are available for (1) SNA 3270 cluster controller emulation, (2) SNA RJE workstation emulation, (3) API 3270 for custom application development, and (4) APPC via LU6.2 and T2.1 for distributed connectivity and peer-to-peer processing. The interfaces require no software changes to existing DEC or IBM software.

■ CPI 12020/SNA
2 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $15,000+
The CPI 12020/SNA provides VAX BIbus-based systems with on-line access to IBM hosts, batch file transfers, printing of IBM files on local printers, and building of VAX applications that integrate data from the remote IBM host. The interfaces require no software changes to existing DEC or IBM software.

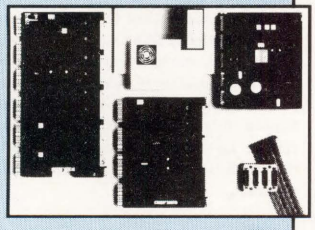
■ CPI 12030/SNA
2 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $8,975
The CPI 12030/SNA provides Q-bus-based systems with on-line access to IBM hosts, batch file transfers, printing of IBM files on local printers, and building of VAX applications that integrate data from the remote IBM host. Interfaces are available for (1) SNA 3270 cluster controller emulation, (2) SNA RJE workstation emulation, (3) API 3270 for custom application development, and (4) APPC via LU6.2 and T2.1 for distributed connectivity and peer-to-peer processing. The interfaces require no software changes to existing DEC or IBM software.

■ CPI 13010/AUTODIN
4 Supported Port(s) • Q-bus Supported • VMS Supported • $9,500+

■ CPI 13030/AUTODIN
4 Supported Port(s) • Q-bus Supported • VMS Supported • $9,500+
Certified by the DCA, the CPI 13010/AUTODIN and 13030/AUTODIN implement the AUTODIN Mode 1 protocol. Feature user-definable data rates and numerous security features.

SIMPACT ASSOCIATES, INC.

simpact



■ CPI 2010/X.25
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $4,400+
Simpact's CPI 2010/X.25 interface is a complete hardware and software solution that offloads the network, data link and physical levels of X.25 from Q-bus-based hosts. This enhances host performance while providing high line efficiency. Every interface in the CPI series provides cost-effective, multiple connections, each configurable for a variety of data rates and parameters. The X.25 interface may be configured for type of connection service, number of virtual circuits, and internal or external clock source. The X.25 interface is Telenet, TYMNET, and DDN certified. In addition, CPI protocol software is downloaded to hardware, making protocol upgrades and enhancements easy to implement.

■ CPI 2000/X.25
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $6,800+
Certified for Telenet, TYMNET and the DDN, the CPI 2000/X.25 is a complete solution that offloads the X.25 protocol from UNIBUS-based hosts while providing configuration flexibility.

■ CPI 2020/X.25
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $11,000

■ CPI 2030/X.25
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $4,400+
Certified for Telenet, TYMNET, and the DDN, the CPI 2020/X.25 and 2030/X.25 are complete solutions that offload the X.25 protocol from VAXBI-bus hosts while providing configuration flexibility.

■ CPI 3000/HDLC
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $6,000+
The CPI 3000/HDLC is a complete hardware and software solution, providing a cost effective and flexible implementation of the HDLC LAPB protocol for UNIBUS-based systems.

■ CPI 3010/HDLC
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $4,300+
The CPI 3010/HDLC is a complete hardware and software solution, providing a cost effective and flexible implementation of the HDLC LAPB protocol for Q-bus based systems.

■ CPI 3020/HDLC
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $11,000
The CPI 3020/HDLC is a complete hardware and software solution, providing a cost effective and flexible implementation of the HDLC LAPB protocol for VAX BIbus-based systems.

■ CPI 3030/HDLC
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $4,300+
The CPI 3030/HDLC is a complete hardware and software solution, providing a cost effective and flexible implementation of the HDLC LAPB protocol for Q-bus based systems.

■ CPI 4000/ADCCP NRM
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $11,000+
The CPU 4000/ADCCP NRM provides a flexible implementation of the ADCCP NRM protocol for UNIBUS based systems. The interface is configurable for data rate, internal or external clock source, window size, and address length and station.

■ CPI 4010/ADCCP NRM
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPU 4010/ADCCP NRM provides a flexible implementation of the ADCCP NRM protocol for Q-bus-based systems. The interface is configurable for data rate, internal or external clock source, window size, and address length and station.

■ CPI 4020/ADCCP NRM
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $13,500
The CPU 4020/ADCCP NRM provides a flexible implementation of the ADCCP NRM protocol for VAX BIbus based systems. The interface is configurable for data rate, internal or external clock source, window size, and address length and station.

■ CPI 4030/ADCCP NRM
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPU 4030/ADCCP NRM provides a flexible implementation of the ADCCP NRM protocol for Q-bus-based systems. The interface is configurable for data rate, internal or external clock source, window size, and address length and station.

■ CPI 4200/ADCCP ABM
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $11,000+
The CPI 4200/ADCCP ABM provides a high-performance and flexible implementation of the ADCCP ABM protocol for UNIBUS-based systems. The interface is configurable for data rate, window and address sizes.

■ CPI 4210/ADCCP ABM
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/RSX Supported • $7,000+
The CPI 4210/ADCCP ABM provides a high-performance and flexible implementation of the ADCCP ABM protocol for Q-bus-based systems. The interface is configurable for data rate, window and address sizes.

■ CPI 4220/ADCCP ABM
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $13,500
The CPI 4220/ADCCP ABM provides a high-performance and flexible implementation of the ADCCP ABM protocol for VAX-BIbus-based systems. The interface is configurable for data rate, window and address sizes.

■ CPI 4230/ADCCP ABM
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $7,000+
The CPI 4230/ADCCP ABM provides a high-performance and flexible implementation of the ADCCP ABM protocol for Q-bus-based systems. The interface is configurable for data rate, window and address sizes.

■ CPI 5000/SDLC
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX/RSX Supported • $9,000+
The CPI 5000/SDLC is a complete SDLC communication solution for UNIBUS-based systems. A variety of configuration parameters allow the interface to be shaped to specific applications.

■ CPI 5010/SDLC
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $5,600+
The CPI 5010/SDLC is a complete SDLC communication solution for Q-bus-based systems. A variety of configuration parameters allow the interface to be shaped to specific applications.

■ CPI 5020/SDLC
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $11,000
The CPI 5020/SDLC is a complete SDLC communication solution for VAX BIbus-based systems. A variety of configuration parameters allow the interface to be shaped to specific applications.

■ CPI 5030/SDLC
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX/MRSX Supported • $5,600+
The CPI 5030/SDLC is a complete SDLC communication solution for Q-bus-based systems. A variety of configuration parameters allow the interface to be shaped to specific applications.

■ CPI 8010/DDCMP
4 Supported Port(s) • Q-bus Supported • VMS Supported • $5,000+
The CPI 8010/DDCMP is a complete hardware and software DDCMP communication solution for Q-bus-based systems. The interface is fully compatible with DEC's products at the programming and serial link levels. It may be independently configured for a variety of parameters including data rate, synchronization, clock source, type of connection, and DECnet or QIO access.

■ CPI 8020/DDCMP
4 Supported Port(s) • Bibus Supported • VMS Supported • $11,000
The CPI 8020/DDCMP is a complete hardware and software DDCMP communication solution for VAX BIbus-based systems. The interface may be independently configured for a variety of parameters.

■ CPI 8030/DDCMP
4 Supported Port(s) • Q-bus Supported • VMS Supported • $5,000+
The CPI 8030/DDCMP is a complete hardware and software DDCMP communication solution for Q-bus-based systems. The interface is fully compatible with DEC's products at the programming and serial link levels. It may be independently configured for a variety of parameters including data rate, synchronization, clock source, type of connnection, and DECnet or QIO access.

■ CPI 9000/DDN
8 Supported Port(s) • UNIBUS Supported • VMS/ULTRIX Supported • $17,000+
Certified by the DCA for use on the DDN, the CPI 9000/DDN provides DDN interoperability for UNIBUS systems with TCP/IP and the DoD application protocol suite: TELENET, FTP and SMTP.

■ CPI 9010/DDN
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX Supported • $12,400+
Certified by the DCA for use on the DDN, the CPI 9010/DDN is a full service interface implementation of the DoD protocol architecture for Q-bus-based systems. DDN interoperability is achieved with the incorporation of TCP/IP and the DoD application protocol suite: TELENET, FTP and SMTP. Both standard and basic X.25 are supported.

■ CPI 9020/DDN
4 Supported Port(s) • Bibus Supported • VMS/ULTRIX Supported • $23,800+
Certified by the DCA for use on the DDN, the CPI 9020/DDN provides DDN interoperability for VAX BIbus-based systems with TCP/IP and the DoD application protocol suite: TELENET, FTP, and SMTP.

■ CPI 9030/DDN
4 Supported Port(s) • Q-bus Supported • VMS/ULTRIX Supported • $12,400+
Certified by the DCA for use on the DDN, the CPI 9030/DDN is a full service interface implementation of the DoD protocol architecture for Q-bus-based systems. DDN interoperability is achieved with the incorporation of TCP/IP and the DoD application protocol suite: TELENET, FTP, and SMTP. Both standard and basic X.25 are supported.

Software Results Corporation

■ **COMBOARD-HASP-1231**
1 Supported Port(s) • UNIBUS Supported • VMS/UNIX Supported • $12,500+
MC68000-based hardware offloads DEC CPU resources. COMBOARD is a combination hardware and software solution supporting VMS and ULTRIX with speeds of up to 64Kbps.

■ **COMBOARD-HASP-1232**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $24,500
All character translation (EBCIDIC-ASCII), compression, decompression, transmission error recovery and other HASP protocol operations are handled by the COMBOARD-HASP rather than the VAX CPU. Please note that the FEP is Software Results' COMBOARD design.

■ **COMBOARD-HASP-1252**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $8,700+
MC68000 based hardware offloads DEC CPU resources. COMBOARD is a combination hardware and software solution supporting VMS and ULTRIX with speeds up to 64Kbps.

■ **COMBOARD-HASP-431**
1 Supported Port(s) • UNIBUS Supported • VMS/UNIX Supported • $6,500+

■ **COMBOARD-HASP-432**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $6,500+
All character translation (EBCIDIC-ASCII), compression, decompression, transmission error recovery and other HASP protocol operations are handled by the COMBOARD-HASP-431 and -432 rather than the VAX CPU. Please note that the FEP is Software Results' COMBOARD design.

■ **COMBOARD-HASP-452**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $3,500+

■ **COMBOARD-HASP-631**
1 Supported Port(s) • UNIBUS Supported • VMS/UNIX Supported • $9,200+
MC68000 based hardware offloads DEC CPU resources. COMBOARD is a combination hardware and software solution supporting VMS and ULTRIX with speeds up to 64Kbps.

■ **COMBOARD-HASP-632**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $9,900+
All character translation (EBCIDIC-ASCII), compression, decompression, transmission error recovery and other HASP protocol operations are handled by the COMBOARD-HASP rather than the VAX CPU. Please note that the FEP is Software Results' COMBOARD design.

■ **COMBOARD-HASP-652**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $5,900+

■ **COMBOARD-HASP-731**
1 Supported Port(s) • UNIBUS Supported • VMS/UNIX Supported • $11,300+
MC68000 based hardware offloads DEC CPU resources. The COMBOARD-HASP-652 and -731 combine hardware and software and support VMS and ULTRIX with speeds up to 64Kbps.

■ **COMBOARD-HASP-732**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $10,900+
All character translation (EBCIDIC-ASCII), compression, decompression, transmission error recovery and other HASP protocol operations are handled by the COMBOARD-HASP rather than the VAX CPU. Please note that the FEP is Software Results' COMBOARD design.

■ **COMBOARD-HASP-752**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $7,700+

■ **COMBOARD-SNA-1252**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $10,900+
MC68000 based hardware offloads DEC CPU resources. The COMBOARD-HASP-752 and -SNA-1252 combine hardware and software and support VMS and ULTRIX with speeds up to 64Kbps.

■ **COMBOARD-SNA-452**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $3,500+

■ **COMBOARD-SNA-652**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $6,100+

■ **COMBOARD-SNA-752**
1 Supported Port(s) • Q-bus Supported • VMS/UNIX Supported • $9,900+

■ **COMBOARD/3780-1231**
1 Supported Port(s) • UNIBUS Supported • VMS Supported • $11,300+
MC68000 based hardware offloads DEC CPU resources. The COMBOARD-SNA-652, -752, and 3780-1231 combine hardware and software and support VMS and ULTRIX with speeds up to 64Kbps.

■ **COMBOARD/3780-431**
1 Supported Port(s) • UNIBUS Supported • VMS Supported • $6,500+
All character translation (EBCIDIC-ASCII), compression, decompression, transmission error recovery and other 3780 protocol operations are handled by the COMBOARD-3780 rather than the VAX CPU.

■ **COMBOARD/3780-631**
1 Supported Port(s) • UNIBUS Supported • VMS Supported • $8,400+

■ **COMBOARD/3780-731**
1 Supported Port(s) • UNIBUS Supported • VMS Supported • $10,100+
MC68000 based hardware offloads DEC CPU resources. The COMBOARD/3780-631 and -731 combine hardware and software and support VMS and ULTRIX with speeds up to 64Kbps.

Communication Servers

3Com Corporation

■ **CS/200**
10 Supported Port(s) • 38.4Kbps • 802.3 Supported • 512KBytes
The CS/200 features a multiple 68000 processor architecture and is available with internal flexible disk drives for small networks.

■ **CS/210**
10 Supported Port(s) • 38.4Kbps • 802.3 Supported • 512KBytes
The CS/200 also supports four to ten ports in broadband networks and features distributed data switching and multivendor connectivity.

■ **GS/3**
8 Supported Port(s) • 64Kbps • 802.3 Supported

■ **GS/300**
4 Supported Port(s) • 19.2Kbps • 802.3 Supported
The GS/3 and 300 are equipped with intelligent Ethernet controllers, high-speed serial communication controllers, main processors, as well as 68000 processor architecture.

■ **IVECS**
8 Supported Port(s) • 802.3 Supported • 1MBytes • $5,900
The IVECS eliminates the need for up to eight DMF-32 controllers and is equipped with 12MHz architecture and a VLSI Ethernet controller.

■ **NCS/AT**
802.3 Supported
The NCS/AT is a network control server with a multiple 68000 microprocessor architecture and is equipped with a VLSI Ethernet controller.

Able Computer

■ **LC3600**
3600 Supported Port(s) • 1Mbps • HDLC Supported • $10,200
Supports up to eight server link modules, containing 32 links, supporting up to 3600 connections via Able's EASYway servers.

DILOG

■ **CQ2010**
128 Supported Port(s) • 9600bps • T-1 Supported • $3,900
Occupies one slot in the MicroVAX backplane and connects terminals by multiplexing them onto a single T-1 composite line. It replaces as many as eight Q-bus communication controllers and uses existing twisted-pair wiring for links.

Xyplex, Inc.

■ **MX-MAX4500-E/y**
5 Supported Port(s) • 1.544Mbps • 802.3 Supported • $3,995

■ **MX-MAX4500-T**
5 Supported Port(s) • 1.544Mbps • 802.3 Supported • $3,995

■ **MX-MAX5000-E**
16 Supported Port(s) • 1.544Mbps • 802.3 Supported • $9,995

■ **MX-MAX5000-T**
16 Supported Port(s) • 1.544Mbps • 802.3 Supported • $9,995
The MX-MAX Series provide the foundation for creating high performance nonstop communication servers that integrate local and wide area network activity. Support XYPLEX System Software version 2.1E3 or later.

Modems

Able Computer

■ **MB 220**
Fiber Optic Modem • 1Mbps • FDX/HDX Operating Mode • $1,250
This modem provides connection of Able's NC480 and NC3600 network nodes via fiber optic cable.

■ **T1 MODEM MB100**
T1 Modem • 1.544Mbps • FDX/HDX Operating Mode • $3,500
This modem provides connection of Able's EASYway networks to T1 lines. It accepts 1-1.5Mbps data stream, transmits it, and then identically reassembles it on the other end.

Astronautics Corporation of America

■ **AC312**
Acoustic Modem • 300bps • FDX/HDX Operating Mode • Async Transmission Type • 100 Bell Compatible • $199

AT&T Paradyne Corporation

■ **3450**
Leased Line Modem • 14.4Kbps • Async Transmission Type
A point-to-point leased line modem with fully integrated multiplexing, dial restoral and network management facilities. Features diagnostic control panel with two-line, 48-character menu driven display and keypad for user-defined configuration, remote message displays and complete diagnostic control of both local and remote modems.

■ **3470**
Leased Line Modem • 19.2Kbps • Async Transmission Type
A point-to-point leased line modem with fully integrated multiplexing, dial restoral and network management facilities. Features diagnostic control panel with 2-line, 48-character menu driven display and keypad for user-defined configuration, remote message displays and complete diagnostic control of both local and remote modems.

■ **34x0**
Leased Line Modem • 19.2Kbps • Async Transmission Type
The 34x0 features fully integrated Network Management System capabilities for comprehensive diagnostic monitoring, test and control. This model is a standalone modem.

■ **34x1**
Leased Line Modem • 9600bps • Async Transmission Type
The 34x1 modems operate with a shared Auxiliary Diagnostic Control Panel and loadshare power supply system to accommodate high density point-to-point and multipoint applications.

■ **34x2**
Leased Line Modem • 9600bps • Async Transmission Type
The 34x2 Series standalone modems feature, full menu of diagnostic facilities at the device and network levels for end-to-end network surveillance and control.

■ **34x3**
Leased Line Modem • 19.2Kbps • Async Transmission Type
The 34x3 Series are multiport, nest mount, leased line modems with fully integrated multiplexing, and network management facilities.

Bizcomp Corporation

■ **4124**
Voice Band Modem • 2400 bps • FDX/HDX Operating Mode • Async/Sync Transmission Type • 212/103 Bell Compatible • $599
The 4124 is equipped with Bizcomp's proprietary Adaptive Echo Cancellation (AEC) technology.

■ **5124R**
Voice Band Modem • 2400 bps • FDX/HDX Operating Mode • Async/Sync Transmission Type • 212/103 Bell Compatible • $599
This model is a rack mount card configuration.

■ **5124RE**
Voice Band Modem • 2400 bps • FDX/HDX Operating Mode • Async/Sync Transmission Type • 212/103 Bell Compatible • $599
This model is a rack enclosure configuration that is available with an optional (1) RJ27X telephone interface, (2) RJ11C jacks, and (3) Automatic Make Busy function that senses if a modem card is not plugged in and automatically busies out the associated telephone connection.

■ **EXT**
Voice Band Modem • 1200 bps • FDX/HDX Operating Mode • Async Transmission Type • 212/103 Bell Compatible • $449
The EXT features PROM based products, Bizcomp's patented auto-dialing technology, line quality bargraph generations that measure the quality of the phone line, a speaker with volume control, voice/data toggling, external dip switches, and a –50dBM receive sensitivity capability.

Black Box Corporation

■ **1200HC**
Voice Band Modem • 1200bps • FDX Operating Mode • Async Transmission Type • 212A/103 Bell Compatible • $175
Hayes compatible.

■ **201 BC/AS**
Voice Band Modem • 2400bps • Async/Sync Transmission Type • 201B/C Bell Compatible • $685
Operates in multipoint applications.

■ **208 A/B**
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • Sync Transmission Type • 208A/B Bell Compatible • $1,295
Features an antistreaming detector and operates in multipoint applications.

■ **208 AB/AS**
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • Async/Sync Transmission Type • 208A/B Bell Compatible • $1,295
Features an antistreaming detector, built in async to sync converter, and operates in multipoint applications.

■ **224 ATD**
Voice Band Modem • 2400bps • FDX Operating Mode • Async/Sync Transmission Type • 212A/103 Bell Compatible • $500
Hayes Compatible.

■ **2400 HC**
Voice Band Modem • 2400bps • FDX Operating Mode • Async/Sync Transmission Type • 212A/103 Bell Compatible • $375
This modem features Hayes Smartmodem 2400 compatibility, MNP error correction, nonvolatile memory, and soft set configuration via EIA interface.

■ **2400 Security Modem**
Voice Band Modem • 2400bps • FDX Operating Mode • Async Transmission Type • 212A/103 Bell Compatible • $795
Modem features three security levels and storage of 16 passwords and phone numbers.

■ **2400/120**
Leased Line Modem • 2400bps • FDX/HDX Operating Mode • Async/Sync Transmission Type • 201B/V.26 CCITT Compatible • $825
Modem may be used in point-to-point or multipoint modes.

■ **3/12 NPR**
Voice Band Modem • 1200bps • FDX Operating Mode • Async Transmission Type • 212A/103 Bell Compatible • $199
This modem is powered from telephone lines.

■ **9600 A/B**
Voice Band Modem • 9600bps • FDX/HDX Operating Mode • Sync Transmission Type • V.29 CCITT Compatible • $1,995

■ **9600 Async Plus**
Voice Band Modem • 9600bps • FDX Operating Mode • Async Transmission Type • 212A/103 Bell Compatible • $1,099
Modem will switch transmission speeds with a simple command, or the modem can adjust to set speeds automatically.

■ **9600 Async Turbo**
Voice Band Modem • 19.2Kbps • FDX Operating Mode • Async Transmission Type • 212A/103 Bell Compatible • $1,099
Modem will switch transmission speeds with a simple command, or the modem can adjust to set speeds automatically.

■ **9600 FP**
Voice Band Modem • 9600bps • FDX/HDX Operating Mode • Sync Transmission Type • $1,995
This modem is designed for use in multipoint networks over Bell 3002 unconditioned lines. A train-on data feature allows you to add slave modems without interrupting network operations.

■ **9600 Synchronous**
Voice Band Modem • 9600bps • FDX/HDX Operating Mode • Sync Transmission Type • V.29 CCITT Compatible • $1,695
Advanced QAM modulation techniques and a powerful digital equalizer lets it work over all 3002, M1040 or equivalent conditioned, leased telephone lines.

■ **All-in-One**
19.2Kbps • FDX Operating Mode • Async/Sync Transmission Type • V.22/V.32 CCITT Compatible • $1,245+
Ideal for multiple CPU environments, the All-In-One V.32 features MNP5 and Trellis (R) coding.

■ **CSU/DSU**
DDS Ntwrk Modem • 9600bps • FDX/HDX Operating Mode • Async/Sync Transmission Type • $825
Suitable for point-to-point or multipoint applications. For use on the Digital Dataphone Service network.

■ **CSU/DSU V.35**
DDS Ntwrk Modem • FDX/HDX Operating Mode • Sync Transmission Type • $770
Use this unit to link V.35 sync devices to the DDS network via high speed V.35 line.

■ **Modem Rack**
$895
Stores up to 16 printed circuit-card modems. Cards may be removed and replaced with the power on so service is not interrupted.

■ **Security Modem**
Leased Line Modem • 1200bps • FDX Operating Mode • Async Transmission Type • 212A/103 Bell Compatible • $595
Stores up to 25 user ID codes with callback numbers. Also prevents anyone from making unauthorized calls from the host.

■ **V.32**
Leased Line Modem • 9600bps • FDX Operating Mode • Async/Sync Transmission Type • V.32 CCITT Compatible • $1,595
This modem features error-reducing Trellis encoding, call progress detection, and eight test modes.

Bo-Sherrel Company, Inc.

■ **LD-3M**
Line Driver Modem • 19.2Kbps • FDX Operating Mode • Async Transmission Type • $69
Operates without connecting to the main power supply by using ultra low power from data and control signals for local area networks.

■ **M-1AR**
Ltd Dist Modem • 19.2Kbps • FDX Operating Mode • Async Transmission Type • 3081 Bell Compatible • $138
Intended for local communication between computers, printers and displays. Supports carrier detect signal to accommodate equipment using it as a buffer full indicator.

■ **M-3**
Line Driver Modem • 19.2Kbps • FDX Operating Mode • Async Transmission Type • 3081 Bell Compatible • $49
Operates without connecting to the main power supply. Line driving is performed by two-way balanced current loop.

■ **M-5S**
Short Haul Modem • 38.4Kbps • HDX Operating Mode • Async Transmission Type • 3081 Bell Compatible • $219
Equipped with a selectable DTE/DCE switch and request to send (RTS) and clear to send (CTS) delays.

■ **M-E**
Eliminator Modem • 38.4Kbps • Async/Sync Transmission Type • $249
Designed to replace two modems within 800 feet. Connects to two DTE devices (terminals, computers or controllers) and is equipped with request to send (RTS) and clear to send (CTS) delays.

Canoga-Perkins

■ **2121**
Fiber Optic Modem • 19.2Kbps • FDX Operating Mode • Async Transmission Type • $125
The 2121 is used to link CPU to terminals or personal computers.

■ **2250**
Fiber Optic Modem • 153.6Kbps • Async/Sync Transmission Type • $695

■ **2260**
Fiber Optic Modem • 2.048Mbps • $795
Also supports 1.544Mbps data speeds. Available with redundant fiber optics and 1300nm single/multimode options.

■ **2270**
Fiber Optic Modem • 20Mbps • Async/Sync Transmission Type • $3,095
Ideal for KGs-to-Fiber applications. Equipped with 12 interchangeable interfaces, internal or external clocking; available with a redundant fiber optics option.

■ **2280**
Fiber Optic Modem • 12.6Mbps • Async/Sync Transmission Type • $895
Designed for external clock-and-data applications. Equipped with 12 interchangeable interfaces; available with redundant fiber optics and 1300 single/multimode options.

■ **2290**
Fiber Optic Modem • 12.6Mbps • Async/Sync Transmission Type • $1,095
Equipped with 12 interchangeable interfaces and internal or external clocking; available with redundant fiber optics and 1300 single/multimode options.

Case/Datatel

■ **DCP3000**
Ltd Dist Modem • 64Kbps • Async Transmission Type • 43401 Bell Compatible
Features a point-to-point operating mode.

■ **DCP3020**
Ltd Dist Modem • 64Kbps • Async Transmission Type • 43401 Bell Compatible
The DCP3020 features point-to-point, multidrop polled, and dial emulation modes.

■ **DCP3050**
Ltd Dist Modem • 19.2Kbps • Async/Sync Transmission Type • 43401 Bell Compatible
The DCP3050 features point-to-point and multidrop polled modes.

■ **DCP3055**
Ltd Dist Modem • 19.2Kbps • Async/Sync Transmission Type • 43401 Bell Compatible

■ **DCP3057**
Ltd Dist Modem • 64Kbps • Async/Sync Transmission Type • 43401 Bell Compatible
The DCP3055 and 3057 feature point-to-point modes.

■ **DCP3080**
Ltd Dist Modem • 56Kbps • Sync Transmission Type

■ **DCP3083**
Ltd Dist Modem • 56Kbps • Sync Transmission Type

■ **DCP3100**
Ltd Dist Modem • 64Kbps • Async Transmission Type • 43401 Bell Compatible

■ **DCP3120**
Ltd Dist Modem • 64Kbps • Async Transmission Type • 43401 Bell Compatible

■ **DCP3150**
Ltd Dist Modem • 19.2Kbps • Async/Sync Transmission Type • 43401 Bell Compatible

■ **DCP3155**
Ltd Dist Modem • 19.2Kbps • Async Transmission Type • 43401 Bell Compatible

■ **DCP3157**
Ltd Dist Modem • 64Kbps • Async/Sync Transmission Type • 43401 Bell Compatible

■ **DCP3180**
Ltd Dist Modem • 56Kbps • Sync Transmission Type

■ **DCP3183**
Ltd Dist Modem • 56Kbps • Sync Transmission Type
The DCP31xx Series features point-to-point and multidrop polled modes.

Cermetek Microelectronics

■ **1200**
1200bps • FDX Operating Mode • Async/Sync Transmission Type • $395

■ **1200 Security**
1200bps • Async/Sync Transmission Type • $595
The 1200 Security modem includes internal passwords and dial-back security capabilities. It is able to store up to 41 callback numbers and is protected by a key lock system.

■ **1200V**
1200bps • Async Transmission Type • $595
The 1200V modem is equipped with internal communication software designed to support remote terminal operations. It includes menus and user prompts for all modem operations.

■ **2400R**
2400bps • Async/Sync Transmission Type • $645

■ **9600**
4800bps • FDX Operating Mode • $2,999

■ **9600E**
4800bps • FDX Operating Mode • $3,399

Codex Corporation

■ **2111 LDSU**
Ltd Dist Modem • 19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type • $335
Incorporates a design that utilizes the unique characteristics of metallic circuits thereby allowing high-speed at a significantly lower price than conventional modems.

■ **2121 LDSU**
Ltd Dist Modem • 19.2Kbps • FDX/HDX Operating Mode • A*/S Transmission Type • $775
One of a series of high-performance LDSUs incorporating Quadrature Diphase Modulation with advanced LSI and thick-film technologies for superior transmission reliability.

■ **2121C LDSU**
Ltd Dist Modem • 19.2Kbps • FDX/HDX Operating Mode • Async/Sync Transmission Type • $680

■ **2122 LDSU**
Ltd Dist Modem • 64Kbps • FDX/HDX Operating Mode • Sync Transmission Type • $875
A high-speed modem designed for intra- and interpremises data communication with automatic adaptive equalization to maintain virtually error-free transmission.

■ **2123 LDSU**
Ltd Dist Modem • 19.2Kbps • FDX/HDX Operating Mode • A*/S Transmission Type • $1,250
The 2123 LDSU features network control and provides a full range of monitoring, control, test and restoral capabilities.

■ **2205**
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • Sync Transmission Type • 208A/B Bell Compatible • $1,295

■ **2206**
Voice Band Modem • 9600bps • FDX/HDX Operating Mode • Sync Transmission Type • 208A/B Bell Compatible • $1,995
The 2206 features a powerful automatic digital adaptive equalizer with multiple settings to optimize operation. This ensures greater error-free throughput even over marginal lines.

■ **2219**
Voice Band Modem • 1200bps • FDX/HDX Operating Mode • Async Transmission Type • 202S/T Bell Compatible • $475
The rackmount version of the 2219 may be used in the Codex multiple modem enclosure.

■ **2234**
Voice Band Modem • 2400bps • FDX Operating Mode • Async/Sync Transmission Type • 103/212 Bell Compatible • $495
Integral auto calling unit supports 'AT' command compatible mode and a synchronous V.25bis Codex Terse mode. Auto baud provides constant terminal speed.

■ **2239**
Voice Band Modem • 2400bps • FDX Operating Mode • Async/Sync Transmission Type • 212/103 Bell Compatible • $895

■ **2260**
9600bps • FDX Operating Mode • Async/Sync Transmission Type • V.32 CCITT Compatible • $1,995

■ **2260**
9600bps • FDX Operating Mode • Async/Sync Transmission Type • $2,545

■ **2264**
Voice Band Modem • 9600bps • FDX Operating Mode • Async/Sync Transmission Type • 212A Bell Compatible • $1,695
Features 32-state trellis coded modulation, an internal eye pattern generator (EPG), MNP class 4 error correction, and operates with synchronous DTE equipment.

■ **2320**
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • Async/Sync Transmission Type • $1,425

■ **2340**
Voice Band Modem • 9600bps • FDX/HDX Operating Mode • Async/Sync Transmission Type • $1,650
The 2320 and 2340 are available with optional 4-channel buffered multiplexers that allow optimal line utilization for the most demanding networks.

■ **2362**
14.4Kbps • FDX Operating Mode • Async/Sync Transmission Type • V.24/V.28 CCITT Compatible • $3,195
Features 8-state trellis coded modulation, an internal eye pattern generator (EPG), and is available with an optional four- or six-channel time division multiplexer.

■ **2680**
Voice Band Modem • 19.2Kbps • FDX/HDX Operating Mode • Sync Transmission Type • V.24/V.28 CCITT Compatible • $6,650+
Features an internal two-channel (four- and six-channels are optional) time-division buffered multiplexer, and is compatible with all Codex Network Management systems.

Computer Products, Inc.

■ **GT303**
2400bps • Async Transmission Type • 103/212A Bell Compatible • $990
Provides a Hayes compatible modem to a Q-bus based computer as an I/O port. Features DLV11-E emulation.

Computrol

■ **M-1**
$165

■ **M-10**
Fiber Optic Modem • $2,500

Comspec, Inc.

■ **9600C**
Voice Band Modem • 9600bps • FDX/HDX Operating Mode • Sync Transmission Type • $3,495

CTS Corporation

■ **14.4MX**
Voice Band Modem • 14.4Kbps • FDX/HDX Operating Mode • Sync Transmission Type • $4,695
This model features proprietary modulation at 14.4Kbps, CCITT V.29 compatibility below 14.4Kbps, a built-in six-channel TDM multiplexer, and Trellis encoding.

■ **212AHC**
Voice Band Modem • 1200bps • FDX Operating Mode • Async Transmission Type • 212A Bell Compatible • $295
The 212AHC is Hayes compatible.

■ **2424AD**
Voice Band Modem • 2400bps • FDX Operating Mode • Async/Sync Transmission Type • 212A Bell Compatible • $395
The 2424AD modem is menu driven and features a unique command set as well as CCITT V.22 bis and V.22 A/B modulation.

■ **2424ADH Plus**
Voice Band Modem • 2400bps • FDX Operating Mode • Async/Sync Transmission Type • 212A Bell Compatible • $395
The 2424ADH Plus is Hayes compatible and also features CCITT V.22 bis and V.22 A/B modulation.

■ **2424AMH Plus**
Voice Band Modem • 2400bps • FDX Operating Mode • Async/Sync Transmission Type • 212A Bell Compatible • $495
The 2424AMH Plus features Hayes compatibility, MNP error correction, a fixed DTE baud rate, and CCITT V.22 bis as well as V.22 A/B compatibility.

■ **2424RMH**
Voice Band Modem • 2400bps • FDX Operating Mode • Async/Sync Transmission Type • 212A Bell Compatible • $395
The 2424RMH features an MI/MIC data mode, a Hayes compatible command set, and CCITT V.22 bis as well as V.22 A/B modulation.

■ **2424RMM**
Voice Band Modem • 2400bps • FDX Operating Mode • Async/Sync Transmission Type • 212A Bell Compatible • $495
The 2424RMM features the same capabilities as the 2424RMH model; however, the 2424RMM also features MNP error correction.

■ **4827**
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • Sync Transmission Type • V.27 CCITT Compatible • $1,195

■ **9629FP**
Voice Band Modem • 9600bps • FDX/HDX Operating Mode • Sync Transmission Type • V.29 CCITT Compatible • $1,995
The 9629FP features a constant carrier mode or fast polling down to 7.5ms as well as CCITT V.29 compatibility.

CXR Telcom Corporation

■ **1212-AD3H**
Voice Band Modem • 1200bps • FDX Operating Mode • Async/Sync Transmission Type • 103/212A Bell Compatible • $495
The 1212-AD3H features IBM AT compatibility, a 25 number storage capability, MI/MIC and A/AI operation, and may be upgraded to 2400bps with Anderson Jacobsen's 2412-AD3H model.

■ **1212-STH**
Voice Band Modem • 1200bps • FDX Operating Mode • Async/Sync Transmission Type • 103/212A Bell Compatible • $295
The 1212-STH features MI/MIC operation and IBM AT compatibility. It is also available with an optional MNP-5 error detection capability.

■ **1241-124**
Voice Band Modem • 1200bps • FDX Operating Mode • Async/Sync Transmission Type • 212/103 Bell Compatible • $995
The 1241-124 is a modem card designed for central site applications. Four modems/card and 64 modems fit in one 7" high UCCA-01 card cage.

■ **1241-234**
Voice Band Modem • 1200bps • FDX Operating Mode • Async/Sync Transmission Type • $995
The 1241-234 is a modem card designed for central site, Videotex type applications. Four modems/card and 64 modems fit in one 7" high UCCA-01 card cage. This unit also features CCITT V.23 compliance as well as operation at 1200bps with 75bps reverse channel capabilities.

■ **1243-223**
Voice Band Modem • 1200bps • FDX Operating Mode • Async/Sync Transmission Type • 212/103 Bell Compatible • $995
The 1243-233 is a modem card designed for central site, video-type applications. Three modems/card and 48 modems fit in one 7" high UCCA-01 card cage.

■ **1441-1**
Voice Band Modem • 14.4Kbps • FDX

Operating Mode • Sync Transmission Type
The 1441-1 is a modem card designed for one UCCA-01 card cage and UCSA-01 standalone case. It features trellis coding, full front panel configuration, downline loading, and CCITT V.29 and V.33 compliance. The modem card dimensions are 7x1.5x12.

■ 1441-1D
Voice Band Modem • 14.4Kbps • FDX Operating Mode • Sync Transmission Type
The 1441-1D is a modem card designed for one UCCA-01 card cage and UCSA-01 standalone case. It features trellis coding, full front panel configuration, downline loading, and CCITT V.29 and V.33 compliance. The modem card dimensions are 7x1.5x12. In addition, the 1441-1D features UADBU and intelligent lookback.

■ 1911-L2
Voice Band Modem • 19.2Kbps • FDX Operating Mode • Sync Transmission Type
The 1911-L2 features 16-state, 8 dimensional trellis coding capabilities, automatic fall-back/fall-forward, an integral 2 port Time Division multiplexer, and an optional additional 6 port Time Division multiplexer.

■ 1911-L2T
Voice Band Modem • 19.2Kbps • FDX Operating Mode • Sync Transmission Type
Same as above. In addition, the 1911-L2T features UADBU and intelligent lookback.

■ 2412-AD3H
Voice Band Modem • 2400bps • FDX/HDX Operating Mode • A/S Transmission Type • 212A/103 Compatible

■ 2412-STH
Voice Band Modem • 2400bps • FDX Operating Mode • A/S Transmission Type • 212/103 Compatible
Same as above. In addition, the 2412-STH features an optional MNP level 4 or 5 as well as CCITT V.22 and V.22 bis compliance.

■ 2441-1
Voice Band Modem • 2400bps • FDX Operating Mode • A/S Transmission Type • 212/103 Compatible
The 2441-1 is a modem card designed for one UCCA-01 card cage and an UCSA-01 standalone case. It features 25 phone number storage, a menu dialer, security answerback, callback, passwords, UADBU (Unattended Automatic Dial Back-up) in leased line operation, and is available with an optional MNP level 4 or 5. It also features CCITT V.21, V.22, V.22 bis compliance. Modem card dimensions are 7x.74x12.

■ 2441-2
Voice Band Modem • 2400bps • FDX Operating Mode • A/S Transmission Type • 212/103 Compatible
The 2441-2 is a modem card designed for one UCCA-01 card cage and an UCSA-01 standalone case. It features 10 phone number storage, a menu dialer, security answerback, MI/MIC or A/A1 operation, and is available with an optional MNP level 4 or 5. It also features CCITT V.22, V.22 bis compliance. Modem card dimensions are 7x.74x12.

■ 2441-3
Voice Band Modem • 2400bps • FDX Operating Mode • A/S Transmission Type • 212/103 Compatible
The 2441-3 is a modem card designed for one UCCA-01 card cage and an UCSA-01 standalone case. It features an MNP level 4 or 5 option as well as CCITT V.22, V.22 bis compliance. Modem card dimensions are 7x.74x12.

■ 9641-1
Voice Band Modem • 9600bps • FDX Operating Mode • A/S Transmission Type
The 9641-1 is a modem card designed for one UCCA-01 card cage and UCSA-01 standalone case. It features CCITT V.29 compliance or fast pull operation, multipoint or point-to-point operation, and downline loading. The dimensions for the modem card are 7x2x12.

■ 9641-1D
Voice Band Modem • 9600bps • FDX Operating Mode • A/S Transmission Type
Same as 9641-1. The 9641-1D also features UADBU and intelligent lookback.

■ 9641-1F
Voice Band Modem • 9600bps • FDX Operating Mode • A/S Transmission Type
The 9641-1F is a modem card designed for one UCCA-01 card cage and UCSA-01 standalone case. It features CCITT V.29 compliance or fast pull operation, multipoint or point-to-point operation, and downline loading. The dimensions for the modem card are 7x2x12.

■ 9641-1FD
Voice Band Modem • 9600bps • FDX Operating Mode • A/S Transmission Type
The 9641-1FD is a modem card designed for one UCCA-01 card cage and UCSA-01 standalone case. It features CCITT V.29 compliance or fast pull operation, multipoint or point-to-point operation, and downline loading. The dimensions for the modem card are 7x2x12.

■ 9651-1
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type
The 9651-1 features Unattended Automatic Dial Back-up (UADBU) with intelligent lookback, and security features.

■ 9651-2
Voice Band Modem • 9600bps • FDX Operating Mode • A/S Transmission Type

DATACOM TECHNOLOGIES, INC.

■ 192
19.2Kbps • HDX/FDX Operating Mode • A/S Transmission Type
Features internal, external, or received clock, selectable transmitter output level and receiver sensitivity, and is able to multidrop up to 16 units.

■ 193
19.2Kbps • HDX/FDX Operating Mode • A/S Transmission Type
Features internal, external, or received clock, selectable transmitter output level and receiver sensitivity, and is able to multidrop up to 16 units.

■ 300
Short Haul Modem • 19.2Kbps • Async Transmission Type
Used as either DTEs or DCEs and features optical isolated data transmission.

■ 400
Short Haul Modem • 19.2Kbps • Sync Transmission Type
Used as either DTEs or DCEs and features optical isolated data transmission.

DCB, INC.

■ PL 14.4
Voice Band Modem • 14.4Kbps • FDX Operating Mode • Sync Transmission Type
The PL 14.4 model features a receive level indicator.

■ PL 14.4 Plus
Voice Band Modem • 14.4Kbps • FDX Operating Mode • Sync Transmission Type
The PL 14.4 Plus features internal diagnostics that are accessible with any asynchronous terminal.

■ PL 19.2
Voice Band Modem • 19.2Kbps • FDX Operating Mode • Sync Transmission Type
The PL19.2 features a receive level indicator.

■ PL 19.2 Plus
Voice Band Modem • 19.2Kbps • FDX Operating Mode • Sync Transmission Type • V.29 Compatible
The PL 19.2 Plus features internal diagnostics that are accessible with any asynchronous terminal.

■ PL 4.8
Voice Band Modem • 4800bps • FDX Operating Mode • Sync Transmission Type • V.27 Compatible
The PL 4.8 features a receive level indicator.

■ PL 4.8 Plus
Voice Band Modem • 4800bps • FDX Operating Mode • Sync Transmission Type • V.27 Compatible
The PL 4.8 Plus features internal diagnostics that are accessible with any asynchronous terminal.

■ PL 9.6
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type • V.29 Compatible
The PL 9.6 features a receive level indicator.

■ PL 9.6 Plus
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type • V.29 Compatible
The PL 9.6 Plus features internal diagnostics that are accessible with any asynchronous terminal.

■ PL 9.6FP
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type
The PL 9.6FP features a receive level indicator.

■ PL 9.6FP Plus
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type
The PL 9.6FP Plus features internal diagnostics that are accessible with any asynchronous terminal.

DIGITAL COMMUNICATIONS ASSOCIATION

■ 910
Voice Band Modem • 2400bps • FDX/HDX Operating Mode • Sync Transmission Type

■ 911
Voice Band Modem • 2400bps • FDX Operating Mode • A/S Transmission Type • 212A Compatible

■ 920
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • Sync Transmission Type

■ 930
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type

■ 932
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type • 2109 Compatible

■ 940
Voice Band Modem • 14.4Kbps • FDX/HDX Operating Mode • Sync Transmission Type

FAIRCHILD DATA CORPORATION



■ M8023
Ethernet BrdBnd Modem • 10Mbps • FDX Operating Mode • Async Transmission Type
Fairchild's low cost M8023 Ethernet on Broadband modem is able to build host-to-host communication networks on existing broadband systems. Now, Ethernet networks are able to connect to existing broadband communication lines with effective ranges of up to 3600 meters. Our Broadband Ethernet modem links exisitng Ethernet networks, including XNS, DECnet, OSI, MS-net, TCP/IP and TOP. Data is transferred at 10 Mbps in the CSMA/CD environment. The M8023 is an IEEE 802.3 10BROAD36 conformant modem. Single or dual cable RF (75 ohm) with a single AUI data port is standard. Multiple ports are optional.

FASTCOMM DATA CORPORATION

■ FDX 2448
V.22 bis Modem • 4800bps • FDX Operating Mode • A/S Transmission Type • 212A/V.22 Compatible
The FDX 2448 provides 100% Hayes compatibility, MNP 4 and MNP 5 data compression, and password security.

■ FDX 2448B
V.22 bis Modem • 4800bps • FDX Operating Mode • Async Transmission Type • 212A/V.22 Compatible
The FDX 2448B provides MNP 4 and MNP 5 data compression for asynchronous throughput or 4800 bps error free, 100% Hayes compatibility, and password security.

■ FDX 9624
Asymmetric Modem • 19.2Kbps • FDX

Operating Mode • Async Transmission Type • V.32/V.22 Compatible
The FDX 9624 provides V.32 performance at a V.22bis price.

■ **FDX 9624**
Asymmetric Modem • 19.2Kbps • FDX Operating Mode • Async Transmission Type • V.32/V.22 Compatible
The FDX 9624 provides V.32 performance at a V.22bis price.

■ **FDX 9696**
V.32 Modem • 19.2Kbps • FDX Operating Mode • A/S Transmission Type • V.32/V.22 Compatible
The FDX 9696 is an "all speeds in one modem" that communicates with all V.32s, V.22bis, 212A, and 103 modems, and provides 100% Hayes compatibility and password security.

■ **FDX 9696B**
V.32 Modem • 19.2Kbps • FDX Operating Mode • Async Transmission Type • 212A/V.32 Compatible
The FDX 9696B provides a V.32 half card with "all speeds in one" plus MNP 4 and MNP 5, 100% Hayes compatibility, and password security.

■ **FDX 9696RMV**
V.32 Modem • 19.2Kbps • FDX Operating Mode • A/S Transmission Type • 212A/V.32 Compatible
The 9696RMV may be used as a replacement modem for the old Tacal Vadic MDS I rack models (1616, 1681, 1680). It also provides 100% Hayes compatibility and password security.

FiberCom, Inc.

■ **TFM-9600**
19.2Kbps • FDX Operating Mode • A/S Transmission Type • 103/209 Compatible

■ **WFT-12**
Fiber Optic Modem • 19.2Kbps • FDX Operating Mode

■ **WhisperLink**
Fiber Optic Modem • 19.2Kbps • FDX Operating Mode • A/S Transmission Type • 103/209 Compatible

Gandalf Data, Inc.

■ **ACCESS 208**
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • A/S Transmission Type • 208A/B Compatible
Features an auto-equalizing receiver and dial-up or dedicated line compatibility.

■ **ACCESS 24S**
Voice Band Modem • 2400bps • FDX Operating Mode • A/S Transmission Type • 103/212 Compatible
Features full Hayes command suppport, front panel or interface command controls, automatic log-on, re-dial, alternate number re-dial, and CCITT V.22bis compatibility. The rackmount version uses the Gandalf 3000 system for maximum cost/performance.

■ **ACCESS 24V**
Voice Band Modem • 2400bps • FDX Operating Mode • A/S Transmission Type • 103/212 Compatible
Features MNP error correction, interchangeable rackmount and standalone cards, CCITT V.22bis compatibility, and powerful, friendly English commands. The rackmount version uses the Gandalf 3000 system for maximum cost/performance.

■ **Fastrak 14.4**
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type • V.29 Compatible
Features Trellis coded modulation for increased noise immunity.

■ **Fastrak 96**
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type • V.29 Compatible

■ **Fastrak 96FP**
Voice Band Modem • 9600bps • FDX/HDX Operating Mode • Sync Transmission Type • V.29* Compatible
Features point-to-point or multidrop functions.

■ **LDM 192**
Leased Line Modem • 19.2Kbps • FDX Operating Mode • A/S Transmission Type
This modem handles both point-to-point asynchronous and synchronous applications.

■ **LDM 418**
Med Dist Modem • 4800bps • FDX Operating Mode • A/S Transmission Type
Features split channel operation. The rackmount version uses the Gandalf 3000 system for maximum cost/performance.

■ **LDM 419**
Voice Band Modem • 9600bps • FDX Operating Mode • A/S Transmission Type
Features split channel operation. The rackmount version uses the Gandalf 3000 system for maximum cost/performance.

■ **LDM 444**
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • Sync Transmission Type
Features very fast line turnaround, support for multidrop functions, and unlimited distance range over C2 conditional circuits. The rackmount version uses the Gandalf 3000 system for maximum cost/performance.

■ **LDM 454**
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • A/S Transmission Type
Features fast line turnaround, support for multidrop applications, and unlimited distance range over C2 conditional circuits. The rackmount version uses the Gandalf 3000 system for maximum cost/performance.

■ **LDM 640**
Private Line Modem • 64Kbps • A/S Transmission Type
Extends ISDN-B channels up to 12,000 feet on a single 24 AWG twisted pair. Supports analog voice on a single pair of wires. Voice extension suppports existing telephone equipment while extending B channels to data equipment.

■ **LDS 120A**
Short Haul Modem • 19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type
Features point-to-point or multidrop operation and auto-equalizing and autophasing. The rackmount version uses the Gandalf 3000 system and 900 system for maximum cost/performance and density.

■ **LDS 140**
Short Haul Modem • 9600bps • FDX/HDX Operating Mode • Async Transmission Type
Operates over loaded or unloaded lines. The rackmount version uses the Gandalf 3000 system for maximum cost/performance.

■ **LDS 309A**
Short Haul Modem • 19.2Kbps • FDX/HDX Operating Mode • A/S Transmission Type
Features point-to-point or multidrop functions. The rackmount version uses the Gandalf 3000 system for maximum cost/performance.

■ **mLDS 122**
Short Haul Modem • 9600bps • FDX Operating Mode • Async Transmission Type
Features miniature design and packaging. Power derived from interface with high isolation from line transients and noise. Compatible with LDS family of standalone and rackmount products.

■ **mLDS 123**
Short Haul Modem • 19.2Kbps • FDX Operating Mode • Async Transmission Type
Minaturized local modem that gets its power from the interface. Features high isolation from line transients and noise, and is compatible with the LDS 120 family of standalone and rackmount products.

■ **mLDS 123X**
Short Haul Modem • 19.2Kbps • FDX Operating Mode • Async Transmission Type
The mLDS 123X is a miniaturized local modem that gets its power from the interface and is compatible with the LDS 120 family of standalone and rackmount products. Features include high isolation from line transients and noise.

■ **RM 3260**
Voice Band Modem • 256Kbps • FDX Operating Mode • Sync Transmission Type • 301/303 Compatible
Features V.35 compatibility with factory option speeds from 19.2 to 256Kbps. The rackmount version uses the Gandalf 3000 system maximizing central site space and cost/performanc.

■ **RM 3444**
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • Sync Transmission Type
Features very fast line turnaround and support for multidrop functions. The rackmount version uses the Gandalf 3000 system for maximum cost/performance.

■ **RM 3454**
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • A/S Transmission Type
Features very fast line turnaround and support for multidrop functions. The rackmount version uses the Gandalf 3000 system for maximum cost/performance.

■ **SAM 201**
Voice Band Modem • 2400bps • FDX/HDX Operating Mode • A/S Transmission Type • 201C/V.26 Compatible

General Datacomm Industries

■ **DC 19202A**
Private Lne Modem • 19.2Kbps • A/S Transmission Type
Private line modem that features autospeed that optimizes overall throughput by adapting the modem's speed to actual line quality.

■ **DC 296B**
Swt Ntwk Modem • 9.6Kbps • A/S Transmission Type • V.32 Compatible
The DC 296B features full CCITT V.32 support, including 4-wire private line suppport, as well as auto dial back-up and automatic leased line restoral.

■ **DC V.32**
Swt Ntwk Modem • 9.6Kbps • A/S Transmission Type • V.32 Compatible
The DC V.32 features full CCITT V.32 support, including 4-wire private line support, as well as auto dial back-up and automatic leased line restoral. Used for international communication.

■ **Desktop 9600 RPA**
9.6Kbps • V.29 Compatible
The Desktop 9600 RPA is a multidrop modem in a desktop enclosure.

■ **Desktop V.29 RPA**
9.6Kbps • V.29 Compatible
The Desktop V.29 RPA is a multidrop modem in a desktop enclosure that is used for International communications.

■ **GDC 19202A ADR**
Swt Ntwk Modem • 19.2Kbps • A/S Transmission Type
Modem that features autospeed that optimizes overall throughput by adapting the modem's speed to actual line quality. This is a private line/switched network modem that combines both integral dial restoral and automatic leased line restoral.

Hayes Microcomputer Products, Inc.

■ **Rack IA**
This mounting frame for modems provides the versatility needed when installing modems for small or large communications applications.

■ **Smartmodem 9600**
Leased line Modem • 9600bps
Designed for transferring large volumes of data from host to host, between data processing centers, and remote controllers, and from LANs to hosts.

■ **Smartmodem1200**
1200bps • FDX/HDX Operating Mode • A/S Transmission Type • 103/212A Compatible
Can communicate with a majority of modems in USA and internationally.

■ **Smartmodem1200**
1200bps • FDX/HDX Operating Mode • A/S Transmission Type • 103/212A Compatible
Can communicate with a majority of modems in USA and internationally.

■ **Smartmodem2400**
2400bps • FDX Operating Mode • A/S Transmission Type • 103/212A Compatible
Can communicate with a majority of modems in USA and internationally.

■ **Smartmodem2400V**
2400bps • FDX Operating Mode • Async Transmission Type • V.22 Compatible
Can send and receive data at 2400bps- and can achieve up to 4800bps throughout with adaptive compression. Can also provide error-control and automatic feature negotiation.

■ **Smartmodem9600V**
9600bps • FDX/HDX Operating Mode • A/S Transmission Type • V.32 Compatible
Sends and receives data at 9600bps and is able to achieve up to 19200bps throughout with adaptive compression.

■ Transet 1000
Transet available with 128KB ram or 512KB ram, provides both print buffering and an electronic mailbox in one device. While transet is managing printing it can also answer a call to an external modem, take a message, and store it in an electronic mailbox.

■ V-series Enhancer
With the V-series modem enhancer, V–series capabilities are added to Hayes external modems.

Incomm Data Systems

■ 100 RM
19.2Kbps • FDX Operating Mode • Async Transmission Type

■ 100 SA
19.2Kbps • FDX Operating Mode • Async Transmission Type

■ 200 RM
19.2Kbps • FDX Operating Mode • A/S Transmission Type

■ 200 SA
19.2Kbps • FDX Operating Mode • A/S Transmission Type

■ Midget 12
Dial-up Modem • 1200bps • FDX/HDX Operating Mode • Async Transmission Type • 212A/103 Compatible
Features an on-board speaker, automatic adaptive equalizer, and call process monitoring.

■ Midget 2400
Dial-up Modem • 2400bps • FDX/HDX Operating Mode • Async Transmission Type
Features automatic adaptive equalizer, call process monitoring and nonvolatile RAM memory.

■ PL 14.4MD
Voice Band Modem • 14.4Kbps • FDX Operating Mode • Sync Transmission Type

■ Turbo 2400
Voice Band Modem • 2400bps • FDX/HDX Operating Mode • A/S Transmission Type • 103/212 Compatible
The Turbo 2400 is upgradeable to 4800/9600bps data transmission rates as well as MNP error correction.

■ Turbo 2400EC
Dial-up Modem • 19.2Kbps • Async Transmission Type • 212A/103 Compatible
The Turbo 2400EC includes MNP level 4 error correction.

■ Turbo 4800
Dial-up Modem • 4800bps • Async Transmission Type
The Turbo 4800 includes MNP levels 4 and 5 with error correction and compression.

■ Turbo 9600
V.32 Dial-up Modem • 9600bps • Async Transmission Type • 212A/103 Compatible
The data transmission speed for this device is upgradeable to 19.2K.

LAN Systems, Inc.

■ LAN-A1
Short Haul Modem • 19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type • 3001 Compatible
DTE/DCE selectable feature with bidirectional handshake signals. Does not require power supply and is available with optical isolation.

■ LAN-A1-8
Short Haul Modem • 19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type • 3001 Compatible
Features optical isolation on all eight channels. Also available with 19" rack mount that is able to hold up to 128 short modems.

■ LAN-A2
Short Haul Modem • 38.4Kbps • FDX/HDX Operating Mode • Async Transmission Type • 3001 Compatible
DTE/DCE selectable feature with bidirectional handshake signals. Does not require power supply and is available with optical isolation. Also features built-in lightning protection.

■ LAN-MAM8 PLUS
Short Haul Modem • 19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type • 3001 Compatible
Features optical isolation and unlimited or multipoint functions on each channel.

■ LAN-ME
Modem Eliminator Modem • 64Kbps • A/S Transmission Type
Features internal or external clocking and RTS to CTS delays.

■ LAN-S1
Short Haul Modem • 38.4Kbps • FDX/HDX Operating Mode • A/S Transmission Type • 3001 Compatible
Features switch selectable DTE/DCE, optical isolation, built-in lightning protection, point-to-point or multipoint functions, internal or external clocking, and RTS to CTS delays.

■ LAN-S2
Short Haul Modem • 38.4Kbps • FDX/HDX Operating Mode • A/S Transmission Type • 3001 Compatible
Features switch selectable DTE/DCE, optical isolation, built-in lightning protection, unlimited or multipoint functions, internal or external clocking, and RTS to CTS delays.

Microcom, Inc.

■ AX/2400
2900bps • Sync Transmission Type • 103/212A Compatible
Upgradable to 19,200bps.

■ AX/2400c
4800bps • Sync Transmission Type • 103/212A Compatible
Upgradable to 19,200bps.

■ AX/9624c
19.2bps • A/S Transmission Type • 103/212A Compatible

■ AX/Chassis
Designed to house up to eight Microcom AX, and QX modem cards and a transformer power supply module. The modem cards can be intermixed and housed in any combination.

■ QX/12K
12Kbps • 103/212A Compatible
V.22bis compatible. Available in rackmount and standalone models.

■ QX/V.32c
30Kbps • 103/212A Compatible
V.32 compatible. Available in rackmount and standalone models.

Multi-Tech Systems, Inc.

■ MT224AH
2400bps • HDX/FDX Operating Mode • A/S Transmission Type • 212A/103 Compatible

■ MT224EH
2400bps • HDX/FDX Operating Mode • A/S Transmission Type • 212A/103 Compatible
The MT224EH features error-free transmission, using the MNP Class 5 data compression and error correction protocol to detect errors and retransmit the affected data until it is corrected.

■ MT932EA
19.2Kbps • FDX/HDX Operating Mode • A/S Transmission Type • 212A/103 Compatible
The MT932EA ommunicates with V.32 compatible modems.

N.E.T. ComDesign Data Communications Group

■ CM-1440
Voice Band Modem • 14.4Kbps • FDX/HDX Operating Mode • Sync Transmission Type • V.27/.33 Compatible
N.E.T.'s CM-1440 operates in both full and half-duplex over unconditioned leased Telco lines and features Trellis coded modulation and forward error correction when in V.33 mode.

■ CM-4800
Voice Band Modem • 4800bps • FDX/HDX Operating Mode • Sync Transmission Type • V.27 Compatible
The CM-4800 entry-level full-duplex modem is fully compatible with N.E.T.'s SPX family of network multiplexers. Synchronous transmission provides high integrity, speed, and efficiency.

■ CM-9600
Voice Band Modem • 9600bps • FDX/HDX Operating Mode • Sync Transmission Type • V.27/.33 Compatible
N.E.T.'s CM-9600 mid-range full-duplex modem supports X.27, V.29, and V.33 CCITT recommendations and has built-in diagnostics including local and remote loopback for testing specific system components.

■ IM-9600
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type • V.27/.29 Compatible
Compatible with CCITT recommendations V.29, the IM-9600 is designed to compliment N.E.T.'s point-to-point multiplexers operating full-duplex over private four-wire unconditioned Telco lines.

Optical Data Systems

■ ODS 107
Fiber Optic Modem • 56Kbps • Async Transmission Type
Modem is powered by the RS232 signals alone. Requires no power cube. Operates either as DTE/DCE interface compatibility.

■ ODS 108
Fiber Optic Modem • 56Kbps • Async Transmission Type
Modem is powered by the RS232 signals alone. Requires no power cube. Operates either as DTE/DCE interface compatibility. This modem can be used on any piece of TEMPEST or commercial hardware.

■ ODS 700
Fiber Optic Modem • 1.54Mbps • Async Transmission Type • 306 Compatible
Features a standard DSX-1 Interface; full T1 repeater function via rear panel enable switch.

■ ODS219
Fiber Optic Modem • 2.04Mbps • A/S Transmission Type
The ODS 219 supports all known RS 449 devices at speeds up to 2.048 Mbps. Has 30 different modes of operation for RS422 and 30 for RS423/RS232. Supports all three synchronous timing modes: Internal, External, Slave.

Paradyne Corporation

■ 3450
Leased Line Modem • 14.4Kbps • Async Transmission Type

■ 3470
Leased Line Modem • 19.2Kbps • Async Transmission Type
A point-to-point leased line modem with fully integrated multiplexing, dial restoral and network management facilities. Features diagnostic control panel with 2-line, 48-character menu driven display and keypad for user-defined configuration, remote message displays and complete diagnostic control of both local and remote modems.

■ 34x0
Leased Line Modem • 19.2Kbps • Async Transmission Type
The 34x0 features fully integrated Network Management System capabilities for comprehensive diagnostic monitoring, test and control. This model is a standalone modem.

■ 34x1
Leased Line Modem • 9600bps • Async Transmission Type
The 34x1 modems operate with a shared Auxiliary Diagnostic Control Panel and loadshare power supply system to accommodate high density point-to-point and multipoint applications.

■ 34x2
Leased Line Modem • 9600bps • Async Transmission Type
The 34x2 series standalone modems feature, full menu of diagnostic facilities at the device and network levels for end-to-end network surveillance and control.

■ 34x3
Leased Line Modem • 19.2Kbps • Async Transmission Type
The 34x3 series are multiport, nest mount, leased line modems with fully integrated multiplexing, and network management facilities.

Patton Electronics Company

■ 100
19.2Kbps • FDX Operating Mode • Async Transmission Type

■ 101
19.2Kbps • FDX Operating Mode • Async Transmission Type

■ **110**
19.2Kbps • FDX Operating Mode • Async Transmission Type

■ **111**
19.2Kbps • FDX Operating Mode • Async Transmission Type

■ **112**
19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type

■ **113**
19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type

■ **120**
19.2Kbps • FDX Operating Mode • Sync Transmission Type

■ **121**
9600bps • FDX Operating Mode • Sync Transmission Type

■ **130**
9600bps • FDX/HDX Operating Mode • Sync Transmission Type

■ **131**
9600bps • FDX/HDX Operating Mode • Sync Transmission Type

■ **140**
64Kbps • FDX Operating Mode • Sync Transmission Type

■ **200**
19.2Kbps • Sync Transmission Type
Model 200 is a modem emulation unit in a miniature box with an RS232 connector on both ends. It does the job of two synchronous modems.

Plexcom, Inc.

■ **209**
Fiber Optic Modem • 64Kbps • FDX Operating Mode • A/S Transmission Type
The data transmission rate quoted above refers to an asynchronous transmission type; synchronous data has a 256K transmission rate.

■ **401**
Fiber Optic Modem • 1.544Mbps • FDX Operating Mode • A/S Transmission Type
The 401 data link extends your carrier provided T1 link from point of entry to your T1 equipment. It can easily attach to AT&T's 551 DSX-1, or equivalent.

Prentice Corporation

■ **9629/2**
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type

■ **9629/2**
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type

■ **ALD/2**
19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type
■ **ALD/2**
19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type

■ **HSLD/2**
Ltd Dist Modem • 19.2Kbps • FDX/HDX Operating Mode • Sync Transmission Type

■ **HSLD/2**
Ltd Dist Modem • 19.2Kbps • FDX/HDX Operating Mode • Sync Transmission Type

■ **HSLD/3**
Ltd Dist Modem • 64Kbps • FDX/HDX Operating Mode • Sync Transmission Type

■ **HSLD/3**
Ltd Dist Modem • 64Kbps • FDX/HDX Operating Mode • Sync Transmission Type

■ **P201C**
Voice Band Modem • 2400bps • FDX/HDX Operating Mode • Sync Transmission Type • 201B/C Compatible

■ **P201C**
Voice Band Modem • 2400bps • FDX/HDX Operating Mode • Sync Transmission Type • 201B/C Compatible

■ **P212AD**
Voice Band Modem • 1200bps • FDX Operating Mode • Async Transmission Type • 103/212A Compatible

■ **P212AD**
Voice Band Modem • 1200bps • FDX Operating Mode • Async Transmission Type • 103/212A Compatible

■ **P212ZX**
Voice Band Modem • 1200bps • FDX Operating Mode • Async Transmission Type • 103/212A Compatible

Processing Innovations, Inc.

■ **SAM**
Voice Band Modem • 1200bps • Async Transmission Type • 212/202C Compatible
SAM is a Speech Aided Modem that provides (1) front end communication (BELL 202) for interfacing hand-held terminals (MSI/TELXON) to a VAX host or (2) Bell 212 for interfacing PCs for remote data entry through a single dial-up line. Features voice response for verification (202) or ASCII messages to PCs (212).

Racal-Milgo

■ **COMLINK 7/75**
Ltd Dist Modem • 19.2Kbps • A/S Transmission Type
The COMLINK 7/75 operates with the Racal-Milgo CMS network management system.

■ **LDM-V.35**
Ltd Dist Modem • 56Kbps • Sync Transmission Type • V.35 Compatible
Features a full secondary channel and operates over 4 wire metalic lines and local area data circuits in point-to-point mode.

■ **Omnimode 14.4FP**
High Speed Modem • 14.4Kbps • A/S Transmission Type
Features CMS network management support, integral automatic 4 wire dial backup and 6-port TDM multiplexer. Integral DES encryption is an available option.

■ **Omnimode 1614**
High Speed Modem • 16.8Kbps • A/S Transmission Type
Features CMS network management support, integral automatic 4 wire dial backup, and an integral 6-port TDM multiplexer. Integral DES encryption is an available option.

■ **Omnimode 96**
High Speed Modem • 9600bps • A/S Transmission Type
Features CMS network management support, integral automatic 4 wire dial backup, and an integral 4-port TDM multiplexer. Integral DEC encryption is an available option.

■ **RM-1822E/2**
Dial-up Modem • 19.2Kbps • FDX Operating Mode • Async Transmission Type • 103/212A Compatible
The RM-1822E/2 provides data throughput at speeds up to 19.2Kbps with data compression. Features automatic error detection and correction and automatically matches speed with any slow modem in asynchronous mode.

■ **RM-1916**
High Speed Modem • 19.2Kbps • A/S Transmission Type
The RM-1916 is equipped with a standard integral 2-port TDM multiplexer. CMS network management and an integral 8-port TDM multiplexer are available options.

■ **RM-3296**
V.32 Modem • 9.6Kbps • FDX Operating Mode • A/S Transmission Type • 212A/103 Compatible
The RM-3296 is a V.32 multi-mode, multi-speed 9600bps full duplex modem. Features auto dial back-up and Class 5 MNP error correction.

Rad Data Communications

■ **FLM-1**
Fiber Optic Modem • Async Transmission Type

■ **MiniModem**
Short Range Modem • 19.2Kbps • A/S Transmission Type
The MiniModem Series are transformer-isolated from telephone lines for uninterrupted transmission and equipment protection.

■ **SRM-1**
19.2Kbps • FDX/HDX Operating Mode • A/S Transmission Type

■ **SRM-2**
19.2Kbps • FDX/HDX Operating Mode • A/S Transmission Type

■ **SRM-31**
19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type

■ **SRM-32**
19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type

■ **SRM-4**
19.2Kbps • FDX Operating Mode • A/S Transmission Type

■ **SRM-6A**
19.2Kbps • FDX Operating Mode • Async Transmission Type
■ **SRM-6AC**
19.2Kbps • FDX/HDX Operating Mode • Async Transmission Type

■ **SRM-6D**
19.2Kbps • FDX Operating Mode • Async Transmission Type

■ **SRM-6DX**
19.2Kbps • FDX Operating Mode • Async Transmission Type

■ **SRM-6H**
64Kbps • FDX/HDX Operating Mode • Sync Transmission Type

■ **SRM-6S**
19.2Kbps • FDX Operating Mode • Sync Transmission Type

■ **SRM-6SC**
19.2Kbps • FDX/HDX Operating Mode • Sync Transmission Type

■ **SRM-7**
72Kbps • FDX/HDX Operating Mode • Sync Transmission Type

SI Technology, Inc.

■ **2001**
Fiber Optic Modem • 56Kbps • FDX Operating Mode • Async Transmission Type • N Compatible

■ **2004**
Fiber Optic Modem • 56Kbps • FDX Operating Mode • Sync Transmission Type • N Compatible

■ **2005**
Fiber Optic Modem • 56Kbps • FDX Operating Mode • Async Transmission Type • N Compatible

■ **2010**
Fiber Optic Modem • 9600bps • FDX Operating Mode • Async Transmission Type • N Compatible

■ **2025**
Short Haul Modem • 56Kbps • FDX Operating Mode • Async Transmission Type • N Compatible

■ **2105**
Fiber Optic Modem • 56Kbps • FDX Operating Mode • Async Transmission Type • N Compatible

■ **2304**
Fiber Optic Modem • 56Kbps • FDX Operating Mode • Sync Transmission Type • N Compatible

■ **2305**
Fiber Optic Modem • 56Kbps • FDX Operating Mode • Async Transmission Type • N Compatible

■ **2505**
Fiber Optic Modem • 56Kbps • FDX Operating Mode • Async Transmission Type • N Compatible

■ **2507**
19.2Kbps • FDX Operating Mode • Async Transmission Type • N Compatible

■ **2526**
19.2Kbps • FDX Operating Mode • Async Transmission Type • N Compatible

■ **2856**
Fiber Optic Modem • 20Mbps • FDX Operating Mode • Async Transmission Type • N Compatible

■ **2857**
Fiber Optic Modem • 10Mbps • FDX Operating Mode • Async Transmission Type • N Compatible

Telcor Systems Corporation

■ 1248MA
4800bps • Async Transmission Type • 212A/103 Compatible
Password/callback security is standard with DES encrypted output as an optional feature. Hayes and MNP compatible.

■ 2424MA
2400bps • Async Operating Mode • Async Transmission Type • 212A/V.22 Compatible
Provides comprehensive security features while being compatible with all other industry standard modems. DES encrypted output optional. Hayes and MNP compatible.

■ 2448MA
4800bps • Async Transmission Type • 212A/V.22 Compatible
Provides comprehensive security features. DES encrypted output optional. MNP level 5 Data Compression.

■ 2496MA
9600bps • FDX Operating Mode • Async Transmission Type • 212A/V.22 Compatible
Provides comprehensive security features while being compatible with all other industry standard modems. DES encrypted output optional. Hayes and MNP compatible. Modem speed of 9600bps is possible using Telcor's patented data compression feature.

■ 2938MA
38.4Kbps • FDX Operating Mode • Async Transmission Type • 212A/V.22 Compatible
Provides comprehensive security features while being compatible with all other industry standard modems. DES encrypted output optional. Up to 400 passwords/telephone numbers can be stored in each unit. Modem speeds up to 38.4Kbps are available using Telcor's patented data compression feature.

Telebit Corporation

■ T1000
Dial-up Modem • 9600bps • Async Transmission Type • 212A/103J Compatible
Features built-in support for UNIX UUCP, Kermit, Xmodem, and Ymodem file transfer protocols for optimum performance in a broad range of computing environments. Remote access for modem configuration and testing from a central site.

■ T2000
Dial-up Modem • 19.2Kbps • Async Transmission Type • 212A/103J Compatible
Supports SDLC, UNIX UUCP, Kermit, Xmodem and Ymodem protocols. Allows critical, data intensive applications such as the remote transfer of high resolution graphics, CAD/CAE data, and medical images. Supports industry-standard modem command set and the MNP error-control protocol.

■ T2500
Dial-up Modem • 19.2Kbps • A/S Transmission Type • 103J/212A Compatible
Modem employs PEP error control and data compression in high speeds and MNP class 5 error control and data compression in V.32 and slow speeds. Built in PEP support for UNIX UUCP, Kermit, Xmodem, Ymodem and SDLC protocols.

■ TrailBlazer Plus
Dial-up Modem • 19.2Kbps • Async Transmission Type • 103J/212A Compatible
Allows critical, data-intensive applications such as the remote transfer of high resolution graphics, CAD/CAE data and medical images. Supports industry-standard modem command set and the widely used MNP error-control protocol.

Telenetics Corporation

■ 24R-MP
Voice Band Modem • 2400bps • FDX/HDX Operating Mode • A/S Transmission Type • 103/212A Compatible
The 24R-MP features CCITT V.22bis compliance and includes an X.25 PAD (Packet Assembler-Disassembler), therefore eliminating the necessity for a separate communications card. It is GTE Telenet and Canadian Datapac Certified.

■ 24S
Voice Band Modem • 2400bps • FDX Operating Mode • A/S Transmission Type • 103/212A Compatible
The 24S features CCITT V.22bis compliance and is available with MNP error correction as an option for an additional $100.

■ 24S-MP
Voice Band Modem • 2400bps • FDX/HDX Operating Mode • A/S Transmission Type • 103/212A Compatible
The 24S-MP features CCITT V.22bis compliance and includes an X.25 PAD (Packet Assembler-Disassembler), therefore eliminating the necessity for a separate communications card. It is GTE Telenet and Canadian Datapac Certified.

■ 24S/R
Voice Band Modem • 2400bps • FDX Operating Mode • A/S Transmission Type • 103/212A Compatible
The 24S/R features CCITT V.22bis compliance and is also available with an MNP error correction option for an additional $100.

■ ED 14.4
Voice Band Modem • 14.4Kbps • FDX Operating Mode • Sync Transmission Type
The ED 14.4 features V.29 compliance and is also availiable with optional V.33 compliance.

■ ED 19.2
Voice Band Modem • 19.2Kbps • FDX Operating Mode • Sync Transmission Type
The ED 19.2 features Trellis coded Viterbi algorithm capabilities.

■ ED 9.6
Voice Band Modem • 9600bps • FDX Operating Mode • Sync Transmission Type
The ED 9.6 model features CCITT V.29 compliance.

■ TC921S-12
Voice Band Modem • 1200bps • FDX/HDX Operating Mode • A/S Transmission Type • 103/212A Compatible
The TC921S-12 features MNP error correction and may be upgraded to the TC921S-24.

■ TC921S-24
Voice Band Modem • 2400bps • FDX/HDX Operating Mode • A/S Transmission Type • 103/212A Compatible
The TC921S-24 features MNP error correction.

Teltone Corporation

■ DCS3
19.2Kbps • Async/sync Transmission Type
This system transmits data over standard phone lines at the same time those lines carry voice and switching signals.

■ DCS3A/B
19.2Kbps • Async Transmission Type
This system transmits data over standard phone lines at the same time those lines carry voice signals. This system offers increased flexibility in office data communications by eliminating the need to install a separate data cable to each user workstation.

■ T-line 3
Short Haul Modem • 19.2Kbps • Async Transmission Type
Provides data transmission anywhere a single cable pair is available.

U. S. Robotics, Inc.

■ 30 Modular Modem
Voice Band Modem • 2400bps • FDX Operating Mode • Async Transmission Type • 212A Compatible

■ Courier 1200
Voice Band Modem • 1200bps • FDX/HDX Operating Mode • Async Transmission Type • 103/212A Compatible

■ Courier 2400
Voice Band Modem • 2400bps • FDX Operating Mode • Async Transmission Type • 212A Compatible

■ Courier 2400e
Voice Band Modem • 2400bps • FDX Operating Mode • Async Transmission Type • 212A Compatible

■ Courier HST
Voice Band Modem • 9600bps • FDX Operating Mode • Async Transmission Type • 212 Compatible

■ Courier HST
9600bps • FDX Operating Mode

■ Courier HST Dual Std
19.2Kbps • Async Transmission Type
This modem is compatible with CCITT V.32 and all other major modulation standards from 300 through 19,200bps.

■ Courier HST/lx
9600bps

Versitron

■ T1
Fiber Optic Modem • 1.544Mbps

Multiplexers

Algo, Inc.

■ NC 600
$1,495
The NC600 is a switching multiplexer that connects up to 3300 RS232 devices.

Astronautics Corporation of America

■ DialMux
5 Channels Supported • 19.2Kbps • $1,230
The DialMux features unique STDM capabilities which utilize dial network voice lines.

■ LineMux
5 Channels Supported • $1,545
The LineMux is a leased line multichannel device.

AT&T Paradyne Corporation

■ 2030
The 2030 features four or eight channels, independently configurable channels, optional internal 9600bps modem and configuration via CRT or front control panels.

■ 3210
The 3210 is a bit-or-byte interleaved, time division multiplexing in point-to-point or networking environments over T-1 digital facilities. Capacity of 96 circuits. Available with a networking option (3210-15) for companies requiring T-1 networking capabilities.

■ DCX 840
The DCX 840 networking concentrator is a high performance statistical multiplexer and data exchange. Features central-site configuration, control and diagnostics, two configurations per node, local and remote operation.

■ DCX 850
The DCX 850 network concentrating exchange is an advanced statistical multiplexer with intelligent processor capabilities. Data on up to 14 network lines and up to 63 nodes per network may be concentrated and transferred via telephone lines or satellite at an aggregate rate of up to two million bits per second.

BICC Data Networks, Inc.

■ 4610-0
Async Transmission Type
The 4610-0 provides access to IEEE 802.3 local area networks for dumb terminals and other asynchronous devices, allowing users access to any number of different hosts. This unit is equipped with one AUI port.

■ 4610-5
Async Transmission Type
The 4610-5 provides access to IEEE 802.3 local area networks for dumb terminals and other asynchronous devices, allowing users access to any number of different hosts. This unit is equipped with one AUI port as well as an integral thin Ethernet transceiver.

Black Box Corporation

■ Communication Box II
$1,490
Features plug in cartridges and boards which allow for growth and changing of network environments.

■ Digital Multiplexer
$1295
Up to eight devices may share one Digital Data service line. Designed for use with 56Kbps high speed data links.

■ LD 470
$545
This unit was designed with the in-house, multiuser system in mind. The units have built-in line-drivers, making them ideal for applications where clusters of terminals are located at nearby sites.

■ **MX 8**
$395
Connects up to eight local devices to the host over RJ-11 lines. Features include transmission up to 5000 feet, independent channel data rates up to 9600bps; composite rates up to 76,800bps.

■ **RS232 Fiber Optic**
$1,295
Device multiplexes up to 48 RS232 channels over one full-duplex, fiber optic line. Features include operation with synchronous or asynchronous equipment, built-in fiber optic modem and independent channel data rates up to 19.2Kbps.

Bo-Sherrel Company, Inc.

■ **MX-2**
8 Channels Supported • 19.2Kbps • Async Transmission Type • $349
Equipped with a loopback test and DCE/DTE selectable switch for each channel. No modem is needed since the MX-2 provides communication up to 3,000 feet between multiplexers.

■ **MX-3**
8 Channels Supported • 19.2Kbps • Async Transmission Type • $389.95
Equipped with a loopback test and a DTE/DCE selectable switch for each channel. No modem is needed since the MX-3 provides communication up to 5,000 feet between multiplexers.

Camintonn Corporation

■ **CM-DHQ11**
38.4Kbps • Async Transmission Type
This module utilizes microprocessor based architecture for high-speed DMA transmission.

■ **CM-DHV11**
38.4Kbps • Async Transmission Type
This module utilizes microprocessor based architecture for high-speed DMA transmission.

■ **CM-DHV16-D**
38.4Kbps • Async Transmission Type

Canoga-Perkins

■ **CMX-320**
32 Channels Supported • 19.2Kbps • Async/Sync Transmission Type • $1,795
Features full code transparency and channel interfaces with 25 pin D type connectors.

■ **CMX-3240**
144 Channels Supported • 76.8Kbps • Async/Sync Transmission Type • $2,695
Enables users to multiplex a variety of channel types and signal formats over single or multimode fiber optic cable. Also features the ability to remove or insert I/O cards under power.

■ **CMX-3248**
8 Channels Supported • 1.544Mbps • Async/Sync Transmission Type • $3,295

■ **CMX-3272**
144 Channels Supported • 19.2Kbps • Async/Sync Transmission Type • $2,395
The CMX-3248 and -3272 feature loopback and are available with redundant optics/power and 1300nm single/multimode options.

■ **CMX-808**
8 Channels Supported • 19.2Kbps • Async/Sync Transmission Type • $895

■ **CMX-816**
16 Channels Supported • 100Kbps • Async/Sync Transmission Type • $2,695
Features three controls per channel and internal/external clocking.

Case/Datatel

■ **DCP5016**
8 Channels Supported • 1200bps • Async Transmission Type

■ **DCP5016**
8 Channels Supported • 64Kbps • Async Transmission Type

■ **DCP5016**
16 Channels Supported • 64Kbps • Async Transmission Type

■ **DCP5016**
16 Channels Supported • 1200bps • Async Transmission Type

■ **DCP5032**
16 Channels Supported • 64Kbps • Async Transmission Type

■ **DCP5032**
8 Channels Supported • 64Kbps • Async Transmission Type

■ **DCP9050**
6 Channels Supported • 64Kbps • Sync Transmission Type
The DCP9050 supports up to 21 input channels when cascading.

■ **DCP9100**
1.544Mbps

■ **DCP9800**
2048Kbps
The DCP9800 includes one power supply (DCP9820) and one common logic set (DCP9830).

Coastcom

■ **D/I MUX III**
24 Channels Supported • 1.536Mbps • Async/Sync Transmission Type • $2,595
The D/I MUX III intelligent channel bank acts as a "fast lane" for fractional T1. When networks need to expand, it will accommodate one or two full T1s with no additional equipment required.

■ **T1M III**
8 Channels Supported • 1.536Mbps • Async/Sync Transmission Type • $2,295
The T1M III intelligent T1 DSU/CSU offers eight ports allowing add-on data cards or voice circuits if necessary. Ideal for high speed computer/telco interfacing and fractional T1 service.

Codex Corporation

■ **6003 INP**
8 Channels Supported • 9600bps • Async Transmission Type • $1,250+
Combines the technology, performance, and reliability of larger Codex systems with the easy-to-use features of the smaller systems in a cost effective product.

■ **6015 INP**
10 Channels Supported • 9600bps • Async/Sync Transmission Type • $1,500+
A statistical time diviison multiplexer designed to provide cost-effective data concentration for up to 16 terminals over a single, high-speed composite link.

■ **6216**
16 Channels Supported • Async/Sync Transmission Type • $4,020+
Operating over medium speed digital transmission facilities, the 6216 offers users a high degree of flexibility in terms of network control, configuration management, and diagnostics.

Computer Products, Inc.

■ **GT304**
38.4Kbps • $275
Supports the LSI 11/23 four level interrupt structure which is ideal for multiuser environments.

■ **GT309A**
16 Channels Supported • 38.4Kbps • Async Transmission Type • $995
Equipped with DMA and is compatible with DEC DH11 software. Connects multiple local and remote terminals and peripherals.

■ **GT312**
8 Channels Supported • 38.4Kbps • Async Transmission Type • $795
Compatible with DEC DH11 software. Connects multiple local and remote terminals and peripherals.

DCB, Inc.

■ **Hub 2**
2 Channels Supported • 56Kbps • Async/Sync Transmission Type • $1,095

■ **Hub 4**
4 Channels Supported • 56Kbps • Async/Sync Transmission Type • $1,495

■ **Hub 6**
6 Channels Supported • 56Kbps • Async/Sync Transmission Type • $1,795
The Hub Series allows multiple SPL multiplexers to share one communication channel either directly attached or on an asynchronous or synchronous tail circuit. The tail circuits may be leased lines or dial-up linetypes.

■ **SPL 10**
10 Channels Supported • 56Kbps • Async/Sync Transmission Type • $2,295

■ **SPL 12**
12 Channels Supported • 56Kbps • Async/Sync Transmission Type • $2,695

■ **SPL 14**
14 Channels Supported • 56Kbps • Async/Sync Transmission Type • $2,995

■ **SPL 2**
2 Channels Supported • 56Kbps • Async/Sync Transmission Type • $795

■ **SPL 4**
4 Channels Supported • 56Kbps • Async/Sync Transmission Type • $1,195

■ **SPL 6**
6 Channels Supported • 56Kbps • Async/Sync Transmission Type • $1,495

■ **SPL 8**
8 Channels Supported • 56Kbps • Async/Sync Transmission Type • $1,995
The SPL Series feature executive port configurations for local or remote units as well as front panel configurations for the local unit. May be used with leased lines or with dial-up FDX modems.

Digital Communications Association

■ **110**
8 Channels Supported • $1,995

■ **120**
32 Channels Supported • $4,995

■ **125**
16 Channels Supported • $5,795

■ **125**
32 Channels Supported • $11,590

■ **205**
128 Channels Supported • $4,250+

■ **207**
$4,995+

■ **CN-1**
64 Channels Supported • $25,000+

■ **CN-2**
144 Channels Supported • $40,000+

■ **NetLink**
128 Channels Supported • $4,395+

■ **NetLink II**
128 Channels Supported • $5,795

Emulex Corporation

■ **CS08**
8 Channels Supported • 57.6Kbps • Async Transmission Type • $1,000+
The CS08 is an eight-line dual wide asynchronous communications multiplexer with DHV11 emulation.

■ **CS09**
16 Channels Supported • 57.6Kbps • Async Transmission Type • $1,000+
The CS09 is a 16-line dual wide asynchronous communications multiplexer with DEC DHV11 emulation.

■ **CS11**
19.2Kbps • $4,100+
The CS11 emulates the DEC DH11 or DV11 and is available with an isochronous option.

■ **CS21/F**
19.2Kbps • $2,950+
The CS21/F emulates the DEC DMF32.

■ **CS21/H**
19.2Kbps • $2,950+
The CS21/H emulates the DEC DH11.

■ **CS21/Z**
19.2Kbps • $2,950+
The CS21/Z emulates the DEC DZ11.

■ **CS23**
38.4Kbps • $3,300+
The CS23 emulates the DEC DH11.

■ **CS32**
38.4Kbps • $24,400
The CS32 emulates the DEC DMF32 and is available with an isochronous option.

■ **QS09**
16 Channels Supported • 57.6Kbps • Async Transmission Type • $2,000
Designed specifically for the MicroVAX

3500/3600, the QS09 replaces two of the DEC CXY08 multiplexers, emulating two DHV11s. No software modifications are needed to use the QS09 with either MicroVMS or ULTRIX.

Equinox Systems

■ LM-48
48 Channels Supported • $3,100

■ LM-8
8 Channels Supported • $700

Fibermux Corporation

■ FX4400
384 Channels Supported
A high capacity fiber-optic backbone that provides a fast flexible pathway for moving voice and data traffic. Features high bandwidth and a broad range of interface signaling support for two to nine sites or more.

Gandalf Data, Inc.

■ DOU 3640
64Kbps • Async/Sync Transmission Type • $325
Extends a single ISDN-B channel over a single twisted pair to a variety of Gandalf and non-Gandalf PADs and multiplexers. May also be used to multiplex voice channel on same pair wires.

■ GLM 518
8 Channels Supported • 640Kbps • Async/Sync Transmission Type • $800
Extends up to eight ISDN-B channels at least 7500 feet on 24 AWG twisted pair cable or 11,000 feet on 22 AWG. May also be used to extend asynchronous channels up to 18,000 feet at all speeds from 50 to 19.2Kbps.

■ GLM 528E
128 Channels Supported • 1.544Mbps • Async/Sync Transmission Type • $3,475
T1 compatible for interpremise multiplexing and digital multidrop via token ring capability on premise at D4/D5 transport standards. Integrates with MUX 2000 to support voice, X.25, SNA and statistically muxed asynchronous data.

■ KMUX
7 Channels Supported • 38.4Kbps • Sync Transmission Type
Supports any protocol and features dynamic bandwidth allocation. Available with voice, X.25, and Stat mux options.

■ mMUX 2000
8 Channels Supported • 19.2Kbps • $995
Features an integral 9600bps modem and support for both stat muxing and X.25 on same linkage with voice traffic. Please review MUX 2000 network management which also works with the mMUX 2000.

■ MUX 2000
32 Channels Supported • 38.4Kbps • Async Transmission Type • $2,000
Integral SNA, X.25 PAD and voice multiplexer support with networking, routing and multidrop insert options. Integrated via outboard network management system.

■ SwitchMux
16 Channels Supported • 19.2Kbps • $2,950
Features a five node ring network, star, or bus network, a switch providing contention and user switch, a starmaster gateway, and SNA support. Available with voice channel, X.25 PAD, and TDM options.

GEN/COMP, Inc.

■ 2033
19.2Kbps • Async Transmission Type • $1,500
The 2033 Series emulates the DEC DZ11 and also supports current loop interfaces.

■ 2036-01
16 Channels Supported • 38.4Kbps • Async Transmission Type • $1,600
The 2036 series emulates DEC's DH11 and DM11 units and features diagnostic modes including internal and external character loopback and fault isolation loopback. Options include RS422 or current loop interfaces, as well as an extending buffer size to 256 characters.

■ 2036-02
38.4Kbps • Async Transmission Type • $2,200

■ 2036-04
38.4Kbps • Async Transmission Type • $2,450
The 2036-02 and -04 also include a distribution panel, available in the following dimensions: 3.5x19x1.2 or 4.7x8.4x2.

■ 2036-05
38.4Kbps • Async Transmission Type • $1,750
This model includes one board only. It also includes three modem-control signals.

■ 2036-06
38.4Kbps • Async Transmission Type • $2,450
The 2036 Series emulates the DEC DH11 and DM11 units and features diagnostic modes including internal and external character loopback and fault isolation loopback. Options include RS422 or current loop interfaces, as well as an extending the buffer size to 256 characters. This model includes a distribution panel in the same dimensions as mentioned above.

■ 2136
16 Channels Supported • 38.4Kbps • Async Transmission Type • $1,600
The 2136 is a program controlled device, emulating a DEC DH11 and DM11, that connects communication lines to an LSI-11, MicroPDP-11, or MicroVAX system.

ICS Datacom

■ 2360
38.4Kbps • $1,195

Incomm Data Systems

■ LocalMux 500S
8 Channels Supported • 9600bps • Async Transmission Type • $599

■ SmartMux
14 Channels Supported • 9600bps • Async Transmission Type • $799+

Lan Systems, Inc.

■ LAN-MUX16A
16 Channels Supported • 19.2Kbps • Async Transmission Type • $795

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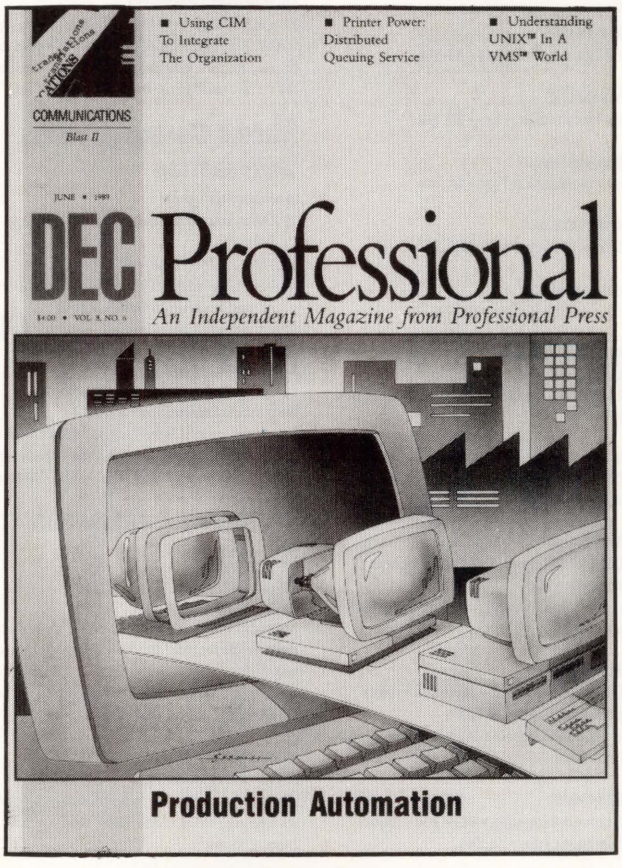
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Features built-in lightning protection, optical isolation on composite links, and LED indicators for each port. No modem is needed between multiplexers.

■ **LAN-MUX8A**
8 Channels Supported • 19.2Kbps • Async Transmission Type • $445
Features built-in lightning protection, optical isolation on composite links, an LED indicator for each port, and self, line, and loopback tests.

■ **LAN-MUX8A PLUS**
8 Channels Supported • 19.2Kbps • Async Transmission Type • $545
Features optical isolation, built-in tail circuit modem support, any combination of RS232 and tail circuit modem support, LED indicators for each port, and self, line, and loopback tests.

MCS Computer Products, Inc.

■ **CM-DHV11**
38.4Kbps • Async Transmission Type • $650+

MDB Systems, Inc.

■ **MDB-DHU-MP**
$4,995
This unit is equipped with a microprocessor board that features DMA capabilities.

■ **MDB-DZ11-A**
Async Transmission Type • $1,950

■ **MDB-DZ11-A/422-X**
Async Transmission Type • $2,100

■ **MDB-DZ11-A/C-X**
Async Transmission Type • $2,100

■ **MDB-DZ11-B**
Async Transmission Type • $1,500

■ **MDB-DZ11-E**
Async Transmission Type • $3,110

■ **MDB-DZ11-M**
Async Transmission Type • $1,300

■ **MDB-F-A32-CKA**
32 Channels Supported • $3,835

■ **MDB-F-DHU-A32**
32 Channels Supported • $6,495

■ **MDB/MLSI-PBI-A32**
32 Channels Supported • $2,850
The above three units feature DMA capabilities.

■ **MUX-C-32D**
32 Channels Supported • 38.4Kbps • Async Transmission Type

■ **MUX-C-32D/T**
32 Channels Supported • 38.4Kbps • Async Transmission Type
This unit is equipped with an RJ11 Telco connector.

■ **MUX-C-32M**
32 Channels Supported • 38.4Kbps • Async Transmission Type • $6,495
The MUX-32C series is in a chassis configuration.

■ **MUX-R-32D**
32 Channels Supported • 38.4Kbps • Async Transmission Type • $6,744

■ **MUX-R-32D/T**
32 Channels Supported • 38.4Kbps • Async Transmission Type
This unit is equipped with an RJ11 Telco connector.

■ **MUX-R-32M**
32 Channels Supported • 38.4Kbps • Async Transmission Type • $7,619

■ **MUX-R-64D/T**
64 Channels Supported • 38.4Kbps • Async Transmission Type
This unit is equipped with an RJ11 Telco connector.

■ **MUX-T-32D**
32 Channels Supported • 38.4Kbps • Async Transmission Type • $6,619

■ **MUX-T-32D/T**
32 Channels Supported • 38.4Kbps • Async Transmission Type
This unit is equipped with an RJ11 Telco connector.

■ **MUX-T-32M**
32 Channels Supported • 38.4Kbps • Async Transmission Type • $7,495
Please note that additional MDB units may be added at any time to support up to 256 channels.

■ **MUX-T-64D/T**
64 Channels Supported • 38.4Kbps • Async Transmission Type
This unit is equipped with an RJ11 Telco connector.

Method Systems, Inc.

■ **Mini-Mux**
8 Channels Supported • 9600bps • Async Transmission Type • $395
The Mini-Mux may be used transparently with all asynchronous machines at 9600bps or less rates. Features transmission distance flexibility via internal jumpering.

Micom Communications Corporation

■ **Micom Box Type 2**
19.2Kbps • Async/Sync Transmission Type • $1,540+
The Micom Box Type 2 is a modular statistical multiplexer offering both point-to-point and multipoint configurations in a single box solution.

■ **Micom Box Type 3**
16 Channels Supported • 19.2Kbps • Async/Sync Transmission Type • $1,960+
The Micom Box Type 3 is a modular multiplxer that also supports voice data for transmission at speeds from 1.2 to 72Kbps.

Motorola Information Systems

■ **6003 INP**
Async Transmission Type
Modular single nested device with redundant architecture that easily may be expanded in size. Supports up to 64 terminals and networks of 20 nodes may be constructed using this device.

■ **6015 INP**
Async Transmission Type
The 6015 also features asynchronous port switching with contention and queuing hunt groups.

■ **6740 DCP**
Modular single nested device with redundant architecture that easily may be expanded in size. Supports up to 64 terminals and networks of 20 nodes may be constructed using this device.

Multi-Tech Systems, Inc.

■ **MultiMux32**
32 Channels Supported • 14.4Kbps • Async Transmission Type • $10,295

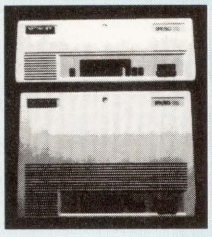
N.E.T. ComDesign Data Communications Group

■ **LS2000**
32 Channels Supported • 19.2Kbps • Async Transmission Type • $2,800+
N.E.T.'s LS2000 terminal server supports up to 32 channels and provides an 802.3 link. It resides on Ethernet with SPX/50 and SPX VMS products as well as other DEC LAN products.

■ **RS2000**
32 Channels Supported • 19.2Kbps • Async Transmission Type • $3,600+
N.E.T.'s RS2000 is a high-performance network multiplexer that supports up to 32 terminals in mid-sized asynchronous remote sites.

N.E.T. ComDesign Data Communications Group

NETWORK EQUIPMENT TECHNOLOGIES™



■ **SPX VMS**
256 Channels Supported • 10Mbps • Async Transmission Type
N.E.T.'s VMS interface is a software solution for host connections in a wide area network. Using DEC's standard Ethernet boards, each driver provides an economical direct host interface for 256 connections to remote locations in an SPX network. By eliminating asynchronous interfaces, SPX solutions cost effectively bridge distributed LANs, or connect remote users to a centralized LAN. Please contact vendor for pricing information.

■ **SPX/30**
72 Channels Supported • 19.2Kbps • Async Transmission Type • $3,750+
N.E.T.'s SPX/30 is designed for large capacity and higher performance requirements at non-LAN sites. The SPX/30 may interface to a large cluster of remote users, third party hosts or synchronous devices, and supports up to eight wide area links. Prices range from $3,750 to $24,500.

■ **SPX/5**
8 Channels Supported • 9600bps • Async Transmission Type • $1,195+
N.E.T.'s SPX/5 four or eight channel multiplexer offers cost savings in entry-level point-to-point applications, or in larger SPX networks. Entry-level installations enjoy unprecedented growth options. Prices range from $1,195 to $1,990.

■ **SPX/50**
80 Channels Supported • 9600bps • Async Transmission Type • $4,450+
N.E.T.'s SPX/50 is designed for data center capacity and LAN interface requirements. Individual SPX/50 chassis may be clustered to support up to 40 wide area links, multiple 802.3 interfaces, and as many as 1,500 integral asynchronous terminal ports. Switching, contention, dynamic routing and network management are common to all SPX family products. Prices range from $4,450 to $100,000.

■ **TS1000**
32 Channels Supported • 19.2Kbps • Async Transmission Type • $2,100+
N.E.T.'s TS1000 multiplexer supports up to 32 terminal servers and is designed for asynchronous end-nodes or point-to-point networks with growth potential.

Optical Data Systems

■ **ODS 304**
20Mbps
Features fully transparent DTR/DSR flow control in rack and wall mount versions. Allows transmission up to four miles.

■ **ODS 708**
8 Channels Supported • 1.544Mbps
This unit may be used by a wide variety of T1 equipment, including T1 feeds from satellites. Doppler shifts present no problem, even when all four T1 signals come from different systems.

■ **ODS 730**
1.544Mbps
This unit is ideal for elimination of bulky multiconductor telephone trunk cables. The integral 15 pin T1 connector allows easy connection to a CSU, microwave link, or larger T1 mux.

Patton Electronics Company

■ **330**
2 Channels Supported • $295

■ **340**
2 Channels Supported • $220

■ **354**
4 Channels Supported • 9600bps • Async Transmission Type • $295

■ **358**
8 Channels Supported • 9600bps • Async Transmission Type • $545

Plexcom, Inc.

■ **1904**
4 Channels Supported • 64Kbps • Async/Sync Transmission Type • $895

■ **1908**
24 Channels Supported • 19.2Kbps • Async/Sync Transmission Type

■ **1916**
48 Channels Supported • 19.2Kbps • Async/Sync Transmission Type
The list price quoted above reflects 16 input channel model.

■ 1932
96 Channels Supported • 19.2Kbps • Async/Sync Transmission Type • $3,195
The list price quoted above reflects a 32 input channel model.

■ 4208

■ 5000
4 Channels Supported • 38.4Kbps • Async/Sync Transmission Type • $1,295

■ 5000
16 Channels Supported • 38.4Kbps • Async/Sync Transmission Type • $1,895

■ 5000
32 Channels Supported • 38.4Kbps • Async/Sync Transmission Type • $3,195

9■ 600
64 Channels Supported • 57.6Kbps • Async/Sync Transmission Type • $3,500+
The list price quoted above reflects an eight input channel model.

Rad Data Communications

■ DVI
3 Channels Supported • $145

■ KiloMux
6 Channels Supported • Async/Sync Transmission Type • $1,600

■ KiloMux 56
6 Channels Supported • 56Kbps • Async/Sync Transmission Type • $1,450

■ MAM-A
2 Channels Supported • $295

■ MAM-S
2 Channels Supported • Async/Sync Transmission Type • $395

■ MMM
2 Channels Supported • Async/Sync Transmission Type • $350

■ MSM
2 Channels Supported • $220

■ RCMCoax
2 Channels Supported • $145

■ STM 4
4 Channels Supported • 19.2Kbps • Async/Sync Transmission Type • $595

■ STM-24
24 Channels Supported • 19.2Kbps • Async/Sync Transmission Type • $1,950

■ STM-8
8 Channels Supported • 19.2Kbps • Async/Sync Transmission Type • $950

■ TRIMLINK 400
4 Channels Supported • 19.2Kbps • Sync Transmission Type • $3,950
Features an integral data compressor. Uses the Ziv-Lempel compression algorithm, and compresses each channel individually prior to multiplexing them into a single aggregate.

Raycom Systems, Inc.

■ 5100/5110
32 Channels Supported • 19.2Kbps • $2,850+
Supports T1, RS232, V.35, RS422, Current Loop, IBM 3270, 5088 graphics control, Token-Ring and ARCNET interfaces.

SI Technology, Inc.

■ 1000
48 Channels Supported • 10Mbps • Async/Sync Transmission Type • $1,500+

■ 2006
8 Channels Supported • 19.2Kbps • Async/Sync Transmission Type • $1,500+

■ 2016
16 Channels Supported • 19.2Kbps • Async Transmission Type • $2,000
The 1000, 2006, and 2016 models feature fiber optic cables for distances up to 2km and are ideal for in-house data transmission within clustered terminal environments.

Sigma Information Systems

■ SCD-DHV11/16
16 Channels Supported • 38.4Kbps • Async Transmission Type • $780

■ SCD-DHV11/8
8 Channels Supported • 38.4Kbps • Async Transmission Type • $673

■ SCD-DZV11
8 Channels Supported • 19.2Kbps • Async Transmission Type • $867
Designed for the LSI-11, the SCD-DHV11/16 and 11/8 are addressed as two separate 8-line devices that emulate two of DEC's DHV11 devices, and are software compatible with operating systems and diagnostics designed for the DEC module.

Solana Electronics

■ SE 822
8 Channels Supported • 9600bps • $495

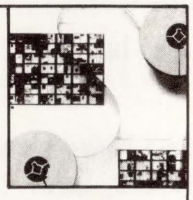
■ SE 822-CL
8 Channels Supported • 9600bps
The SE 822-CL features full hardware handshaking.

Summus Computer Systems

■ SUM-COM
256 Channels Supported • 19.2Kbps • Async/Sync Transmission Type

■ SUM-DHV16
38.4Kbps
The maximum asynchronous baud rate is 9600bps per line for the SUM-COM and the SUM-DHV16.

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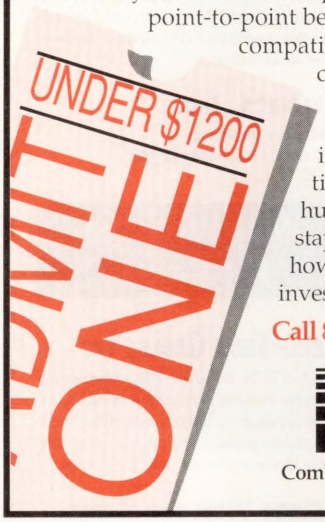
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NETWORK EQUIPMENT TECHNOLOGIES™

ComDesign Data Communications Group

Systech Corporation

■ **HPS-6236**
$1,185

■ **HPS-6237**
Gives users the same features as the HPS-6236, but also provides a parallel printer port.

Telebyte Technology, Inc.

■ **570**
8 Channels Supported • 19.2Kbps • Sync Transmission Type • $548
The 570 model features TD and RD indicators per channel, data and synchronous loss indicators, a remote test and indicator, built in surge protection, and eight 25 foot cables.

■ **571**
8 Channels Supported • 19.2Kbps • Sync Transmission Type • $695
Same as above.

■ **572**
8 Channels Supported • 19.2Kbps • Sync Transmission Type • $395
The 572 operates with models 570 and/or 571 and is equipped with a ribbon cable interface to DHV-11 and may be configured for multiuser systems.

Teltone Corporation

■ **M-825-01**
32 Channels Supported • 19.2Kbps • Async Transmission Type
The M-825-01 is available with any or all of the following factory installed options: (A) EIA Status Control Card, (B) T1 Interface Lightning Protection, and (C) T1 Interface High Level Outputs.

■ **M-825-02**
32 Channels Supported • 19.2Kbps • Async Transmission Type
Same as above.

■ **Max1**
This multiplexer has met compatibility standards for use with AT&T's T1.5, R1.5, CCR, M24SDN, Megacom, and Megacom 800 services.

■ **Max1 T1**
32 Channels Supported
Provides DEC VT100 terminal emulation capability for AT&T's ACCUMASTER integrator users. Interfaces voice and data devices to two T1 spans per unit.

Universal Data Systems

■ **1406T**
6 Channels Supported • 14.4Kbps • $3,495
Six channel CCITT V.33 compatible time division multiplexer combined with an integral 14.4Kbps CCITT V.33 compatible data modem.

■ **1408S**
8 Channels Supported • 14.4Kbps • $3,995
Full featured eight port statistical multiplexer combined with an integral 14.4Kbps CCITT V.33 modem, designed for point-to-point applications. Includes ARQ error control.

■ **9604T**
4 Channels Supported • 9600bps • $2,495
Four channel CCITT V.29 compatible time division multiplexer combined with an integral 9600bps CCITT V.29 compatible modem.

■ **9608S**
8 Channels Supported • 9600bps • $2,695
Full featured eight port statistical multiplexer with an integral 9600bps V.29 modem. Includes ARQ error control.

■ **SM-4A**
4 Channels Supported • 19.2Kbps • Sync Transmission Type • $1,160
Four port statistical multiplexer designed for use with a standard, full duplex synchronous modem at rates up to 19.2Kbps. Includes ARQ error control.

■ **SM-8A**
8 Channels Supported • 19.2Kbps • Sync Transmission Type • $1,550
Eight port statistical multiplexer designed for use with a standard full duplex, synchronous modem at data rates up to 19.2Kbps. Includes ARQ error control.

■ **TDM/MR**
24 Channels Supported • 38.4Kbps • Async/Sync Transmission Type
The TDM/MR multiplexes data terminal equipment over a variety of transmission devices such as low speed analog modems, leased line modems, subrate and 56Kbps DSUs, T1 multiplexer channels, etc. Operates at aggregate data rates up to 38.4Kbps.

Webster Computer Corporation

■ **WQDHV**
16 Channels Supported • 38.4Kbps • Async Transmission Type
RS232 asynchronous 16-line (2xDHV11) multiplexer that features programmable split speed baud rates, character length, parity, stop bits, and XON/XOFF. Four character/line FIFO silo and 256 character common silo.

WQDZV
■ **8 Channels Supported • 38.4Kbps • Async Transmission Type**
RS232 asynchronous eight-line DZ11/DZV11 multiplexer features programmable baud rates, character length, parity, stop bits, and transmitter enable; also features four character/line FIFO silo and 64 character common silo.

Xylogics, Inc.

■ **Interface Multiplexer**
16 Channels Supported • $2,495

Wiring Systems And Cables

Accu-Tech Cable, Inc

ACCU-TECH features DEC compatible modular twisted pair wiring systems, including adapters, baluns, octupuses, feeders, patch panels, enclosures, wire and cable meeting plenum, and PVC codes.

Belden Wire and Cable

Suppliers of multiconductor, paired, coaxial, plenum, and fiber optic cables. Offers custom design services and technical assistance programs.

Belkin Components

Manufacturer of DEC compatible standard and custom cable assemblies, bulk cable, connectors and related hardware.

Black Box Corporation

Black Box Corporation



Whether you need ThinNet, Standard, or Twisted Pair, we have it at Black Box. The following cables are terminated: (1) Standard Ethernet PVC Coax Cable, 384 feet (117m) NK-LCN100-0384 at $435; other lengths NK-LCN100 at $32 + $1.05/feet, (2) ThinNet Ethernet Coax Cable (RG-58), 100 feet (30.5m) NK-LCN300-0010 at $41.50; other lengths NK-LCN300 at $15 + $.30/feet, and (3) Ethernet Transceiver Cable, 10 feet (3m) NK-LCN200-0010 at $52.50; other lengths NK-LCN300 at $41 + $.95/feet. All cables also available in plenum; bulk cable also available. We are also a complete source for DECconnect cables, connectors, and switches. We publish The LAN Catalog, a complete source of information and products for LANs. To order cables or the catalog, call (412) 746-5530.

Cabco Inc.

Suppliers of DEC compatible computer cables and Ethernet cable stripping tools.

Cable Management Systems, Inc.

Suppliers of cables and cabling kits for LANs. Supports Ethernet and RS232C/422 from CPU to peripherals. Provides a standard line of cabling kits for DEC MicroVAX systems that support RS232/423 standards. Consists of two mini-patch panels providing 24 I/O ports that are evenly divided between the CPU and the terminals.

Comm/Scope, Inc.

Electronic wire and cable for LANs. Ethernet, Token Ring, MAP/TOP, broadband, and multi-conductor cables. Cables meet UL and IEEE standards.

CS Electronics

Specialists in cables for DEC compatible disk and tape subsystems using Emulex, DILOG, and MTI controllers and Imprimis, Fujitsu, and Exabyte drives. Cables for SUN disk and tape subsystems.

Custom Cable Industries

DEC equivalent cables, DECconnect, cable assemblies (data, telecommunications & video), transceivers, fiber optics, patch panels, LAN cabling baluns, data switch connectors, bulk wire, and cabling. Networking installations nationwide.

Dynamic Systems Northwest, Inc.

Offers site surveys with customized cable design, assembly and installation of fiber optics, Ethernet, twisted pair, patch panels and connectors within the Techni-Cable division.

General Instrument

Specializes in high performance cable for high performance manufacturing hardware, including DEC approved thinwire Ethernet cable for DEC system flexibility. Designed to meet IEEE 802.3 and IEEE 802.4 standards.

Illinois Computer Cable

Provides a full line of Ethernet and DECnet cables and Thinnet /Thinwire cabling and accessories. Offers standard length DEC cables or designs custom cables to meet specific requirements.

Lanmark Telecom, Inc.

Contracting and consulting firm providing engineering and installation of network cabling systems. Utilizing their Wire-Right smart wiring system, Lanmark provides complete turnkey design, installation, and project management service.

MOD-TAP System

MOD-TAP System designs and manufactures components and system level solutions to voice and data communications wiring. The MOD-TAP Communication Wiring System provides compatibility with Digital DECconnet, IBM Cabling System, Northern Telecom IBDN Wiring, AT&T Premises Distribution System, and Integrated Services Digital Network (ISDN) capabilities. MOD-TAP System is not biased towards any particular manufacturer's equipment or LAN design. MOD-TAP System is guaranteed to interconnect any compatible equipment utilizing standard twisted pair wiring.

South Hills Electronics

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ETHERNET DEVICES

Model	Transmission Rate (bps)	# of Pin Connectors	Local/Remote	Type of Device	SQE (Heartbeat)	IEEE Standards	Warranty	Price
Advanced Computer Communications (ACC) 805 963-9431								
ACS 4030	19.2K		L/R	Remote Bridge		802.3	90 d	$4,975+
ACS 4110	1.544M		L/R	Remote Bridge		802.1	90 d	$7,500
Alantec 415 770-1050								
Multi LAN Switch	160M		L	Fiber Optic Bridge		802.3		$9,800
SMARTBridge 1000				Bridge				
SMARTBridge 2000	10M			Bridge				
SMARTLan Manager	10M			Network Management				
Allied Telesis, Inc. 415 964-2771								
CentreCOM 104	10M	15	N/A	Thinnet Coax Transceiver	Y	802.3	2 yrs	$199
CentreCOM 105	10M	15	N/A	Coax Transceiver	Y	802.3	2 yrs	$169
CentreCOM 106	10M	15	N/A	Thicknet Coax Transceiver	Y	802.3	2 yrs	$199
CentreCOM 107	10M	15	N/A	Thinnet Coax Transceiver	Y	802.3	2 yrs	$199
CentreCOM 108	10M	15	N/A	Thicknet Coax Transceiver	Y	802.3	2 yrs	$199
CentreCOM 1604	10M		L/R	Multiple Transceiver		802.3	1 yr	$1,145
CentreCOM 1608	10M		L/R	Multiple Transceiver		802.3	1 yr	$1,795
CentreCOM 2000	1/10M	15		MAC Layer Learning Bridge		802.3	1 yr	$2,920
CentreCOM 204	10M	15	N/A	Thinnet Coax Transceiver		802.3	2 yrs	$225
CentreCOM 205	10M	15	N/A	Coax Transceiver	Y	802.3	2 yrs	$199
CentreCOM 206	10M	15	N/A	Thicknet Coax Transceiver	Y	802.3	2 yrs	$225
CentreCOM 207	10M	15	N/A	Thinnet Coax Transceiver	Y	802.3	2 yrs	$225
CentreCOM 208	10M	15	N/A	Thicknet Coax Transceiver	Y	802.3	2 yrs	$225
CentreCOM 250	10M		N/A	Dual Port Transceivers	Y	802.3	2 yrs	
CentreCOM 2900	10M		N/A	MAC Level Bridge	Y	802.3	2 yrs	
CentreCOM 2920	10M		L	MAC Level Bridge	Y	802.3	2 yrs	
CentreCOM 5000	10M		L	Multimedia Concentrator	Y	802.3	2 yrs	$1,295
CentreCOM 800	10M	15	L/R	Multiple Transceiver	Y	802.3	1 yr	$945
BICC Data Networks, Inc. 508 898-2422								
1112-1	10M		L	Slimline Tranceiver	Y	802.3		
1112-2	10M		L	Slimline Tranceiver	Y	802.3		
1112-3	10M		L	Slimline Tranceiver	Y	802.3		
1113-1	10M		L	Slimline Tranceiver		802.3		
1113-2	10M		L	Slimline Tranceiver		802.3		
1113-3	10M		L	Slimline Tranceiver		802.3		
1114	10M			Transceiver	Y	802.3		$295
1120	10M			Repeater		802.3		
1125	10M		L	Thin Ethernet Repeater		802.3		
1126	10M		L	Fiber Optic Repeater		802.3		
1130	10M			Fan Out Unit		802.3		
1150	10M			Fiber Optic Repeater		802.3		
1160-0	10M			Fiber Optic Hub		802.3		
1160-1	10M			Fiber Optic Hub		802.3		
1180	10M		L	Fiber Optic Tranceiver		802.3		

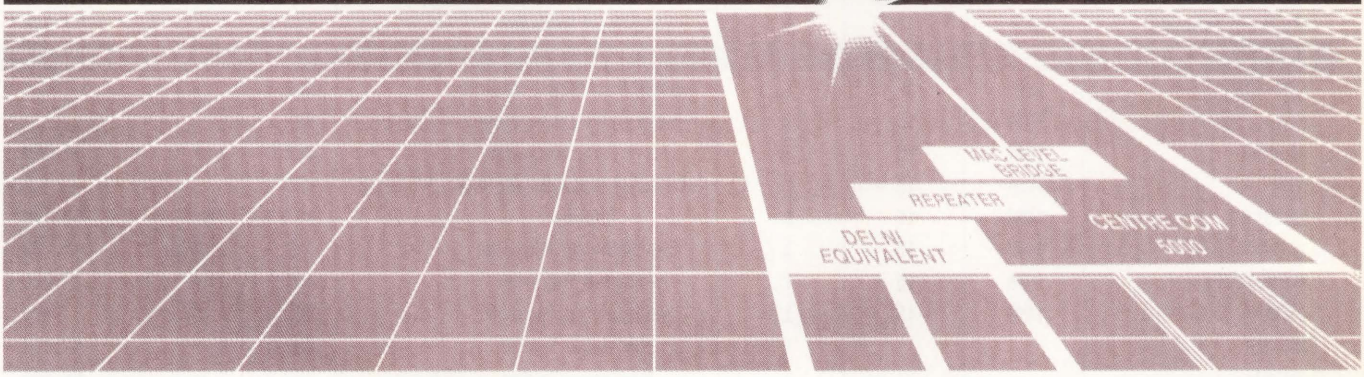
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ETHERNET DEVICES

Model	Transmission Rate (bps)	# of Pin Connectors	Local/Remote	Type of Device	SQE (Heartbeat)	IEEE Standards	Warranty	Price
BICC Data Networks, Inc. 508 898-2422 (continued)								
1400	10M		L	Primary Bridge	Y	802.3		
1410				Bridge		802.3		$7,500
Black Box Corporation 412 746-5500								
Ethernet Bridge	10M		L	Ethernet Bridge		802.3		$2,795
Ethernet Transceiver-2	10M			Transceiver	Y	802.3		$260
Fan Out Unit	10M		L	Fan Out Unit		802.3		$1,250
Fiber Optic Repeater	10M		L	Fiber Optic Repeater		802.3		$2,180
Local Repeater	10M			Repeater		802.3		$1,460
Multiport Repeater	10M		L	Multiport Repeater		802.3		$2,900
Cabletron Systems, Inc. 603 332-9400								
CPT-100	15M	8	L	Twisted Pair Media Adapter		802.3		
FOT-1	10M	15	L	Fiber Optic Transceiver	Y	802.3		
FR3000	10M	15	R	Fiber Optic Repeater		802.3	1 yr	$2,650
IRM	10M	15	L	Intelligent Repeater Module		802.3		
LR2000	10M	15	L	Repeater		802.3	1 yr	$1,365
MR9000 C	10M	15	L	Thin Mulitport Repeater		802.3	1 yr	$2,795
MR9000TPT	10M	15	L	Multiport Repeater		802.3	1 yr	$2,895
MT800	10M	15	L	Multiport Transceiver		802.3	1 yr	$975
NB20E			L	MAC-level Bridge		802.3	1 yr	$2,995
NB25E			L	MAC-level Bridge		802.3	1 yr	$5,495
ST500	10M	15	L	Transceiver	Y	802.3	1 yr	$275
THN-MIM	10M	9	L	Coaxial Media Module		802.3		
TMS-3	10M	15	L	Thin Ethernet Transceiver	Y	802.3	1 yr	$185
TPT-2	10M	15	L	Twisted Pair Transceiver	Y	802.3		
Canoga-Perkins 818 718-6300								
4020	10M	15		Fiber Optic Extender		802.3	1 yr	$3,095
8801		15		Line Monitor		802.3	1 yr	$155
8802	10M	15	R	Fiber Optic Repeater		802.3	1 yr	$1,295
8803		15		Transceiver		802.3	1 yr	$265
8806	10M	15		Expander	Y	802.3	1 yr	$245
8820	10M	15		LAN Hub		802.3	1 yr	$1,300
Casat Technology, Inc. 603 880-1833								
4000 Series	10M	15		LAN Hub	Y	802.3	1 yr	$1,295
ENT-4303	10M	15		Transceiver	Y	802.3	1yr	$265
Chipcom Corporation 617 890-6844								
7000H	10M	15	L/R	LAN-LAN MultiMedia Hub		802.3	1 yr	$1,495
8023FT	10M	15	L/R	Frequency Translator		802.3	1 yr	$4,400
8312BS	10M	15	L/R	Bridge		802.3	1 yr	$8,950
8312HE		15	L/R	Ethermodem Remodulator		802.3	1 yr	$7,900
8312MS	10M	15	L/R	Ethermodem Transceiver		802.3	1 yr	$5,150
8312S	10M	15	L/R	Ethermodem Transceiver		802.3	1 yr	$3,950
8318BD	10M	15	L/R	Bridge		802.3	1 yr	$8,950
8318BS	10M	15	L/R	Bridge		802.3	1 yr	$8,950
8318MS	10M	15	L/R	Broadband Transceiver		802.3	6 m	$5,150
8318S	10M	15	L/R	Broadband Transceiver		802.3	6 m	$3,950
8412BS	10M	15	L/R	Bridge		802.3	1 yr	$9,950
9308S	10M	15	L/R	Fiber Optic Network		802.3	1 yr	$4,150
9314S	10M	15	L/R	Fiber Optic Network		802.3	1 yr	$5,950

ETHERNET DEVICES

Model	Transmission Rate (bps)	# of Pin Connectors	Local/Remote	Type of Device	SQE (Heartbeat)	IEEE Standards	Warranty	Price
cisco Systems, Inc. 800 553-NETS								
HyBridge				Hybrid Bridge Router				$6,200
Communication Machinery Corporation (CMC) 805 968-4262								
DRN-1700			L	Ethernet Monitor		802.3	90 d	
DRN-3100			L/R	Ethernet Bridge		802.3	90 d	
DRN-3200			L/R	DDN-Ethernet Gateway		802.3	90 d	
ENO-50						802.3	1 yr	
ENP-40						802.3	1 yr	
Transerver			L	Ethernet Terminal Server		802.3	90 d	
CrossComm Corporation 508 481-4060								
ILAN			L/R	Ethernet and StarLAN Bridge				
ILAN-1			L/R	LAN Bridge				
NTB	1.544M		L/R	WAN Bridge				
T1 Interface	1.544M		L/R	T1 Interface				
David Systems, Inc. 408 720-8000								
David ExpressNet	10M	8	L	Star with Central Hub	Y	802.3		$2,495
Excelan, Inc. 408 434-2300								
EXOS 203	10M		L	Intelligent Controller		802.3	1 yr	$2,530
EXOS 204	10M		L	Controller		802.3	1 yr	$2,230
EXOS 204-4	10M	16	L	Intelligent Controller	Y	802.3	1 yr	$2,120
EXOS 304	10M	16	L	Intelligent Controller	Y	802.3	1 yr	$3,520
FiberCom, Inc. 703 342-6700								
WhisperLAN/DPT	10M	15		Fault Tolerant Transceiver	Y	802.3	90 d	$2,500
WhisperLAN/MPT	10M	15		Fiber Optic Transceiver	Y	802.3	90 d	$2,500
WhisperLAN/PC	10M	15		Fiber Optic Transceiver	Y	802.3	90 d	$1,750
WhisperLAN/RPT	10M	15		Transceiver/Repeater	Y	802.3	90 d	$1,500
WhisperLAN/SPT	10M	15		Fiber Optic Transceiver	Y	802.3	90 d	$1,100
Fibermux Corporation 818 709-6000								
CC 44652		15	L	LAN Bridge		802.3		
CC 44652	4.7M	15	L/R	LAN Bridge		802.3	1 yr	
FX701	10M	15	L/R	Repeater		802.3	1 yr	
Interlan Inc. 508 263-9929								
8-4-1	10M	15		Multiport Transceiver	Y	802.3		$995
IB10	10M	15	L/R	Bridge		802.3		$2,295
IB30	10M	15	L/R	Bridge		802.3		$2,295
IB3000	10M	15	L/R	Bridge		802.3		$4,495
NT100	10M	15		Transceiver	Y	802.3		$290
NT1000	10M	15	L	Transceiver	Y	802.3		
Kinetics, A Division of Excelan 415 947-0998								
Ethernet SEL	10M			Controller for Macintosh SE		802.3		$695
EtherPort II	10M	15	L	Controller for Macintosh II		802.3	1 yr	$695
EtherPort IIL	10M			Controller for Macintosh II		802.3		$695
EtherPort SE	10M	96	L	Controller for MAC SE		802.3	90 d	$695
EtherPort SE/30	10M			Controller for Macintosh SE/30		802.3		$795
EtherPort SE/30L	10M			Controller for Macintosh SE/30		802.3		$795
EtherSC	10M		L	Controller for Macintosh		802.3	90 d	$1,150+
FastPath 4	10M	15	L	AppleTalk-Ethernet Gateway		802.3	90 d	$2,795
Method Systems, Inc. 800 533-6116								
FiberLink I	15M			Fiber Optic Transceiver			2 yrs	$395

ETHERNET DEVICES

Model	Transmission Rate (bps)	# of Pin Connectors	Local/Remote	Type of Device	SQE (Heartbeat)	IEEE Standards	Warranty	Price
Micro Technology, Inc. 714 632-7580								
LANager				Network Analyzer		802.3		$20,500+
MEQNA								
MESTA	10M	1	L	Thin Wire Transceiver	Y	802.3	1 yr	$300
Microcom, Inc. 617 551-1000								
MLB/1000	19.2K	15	R	LAN Bridge		802.3		
MLB/1200	30K	15	R	LAN Bridge		802.3		
MLB/2000	500K	15	R	LAN Bridge		802.3		
MLB/2500	500K	15	R	LAN Bridge		802.3		
Optical Data Systems 214 234-6400								
ODS 234	10M	15	L	Fiber Optic Transceivers	Y	802.3		
ODS 236	10M	15	L	Fiber Optic Transceivers	Y	802.3		
ODS 238	10M	15	L	Thin Wire Transceivers	Y	802.3		
ODS 241	10M	15	L	Optical Multiport Transceivers	Y	802.3		
ODS 243	10M	15	L	Optical Multiport Transceivers	Y	802.3		
ODS 251		15	L	Multiport Transceiver	Y	802.3		
ODS 261		15	L	Multiport Star	Y	802.3		
ODS 263		15	L	Multiport Star	Y	802.3		
ODS 264		15	L	Twisted Pair Transceiver	Y	802.3		
ODS 266		15	L	Twisted Pair Transceiver	Y	802.3		
ODS 268		15	L	Thin Wire Gateway	Y	802.3		
Optivision, Inc. 916 756-4429								
Optibus-DR11	1.5M			Fiber Optic Link				$6,000
Plexcom, Inc. 805 522-3333								
1112/3	10M		L	Thinnet Transceiver		802.3		
1120	10M		L	Repeater		802.3		
1125	10M		L	Multiport Repeater		802.3		
1125	10M		L	Fan Out Unit		802.3		
1126	10M		L	Fiber Optic Multiport Repeater		802.3		
1150	10M		R	Fiber Optic Repeater		802.3		
1160	10M		R	Fiber Optic Hub		802.3		
1170/1	10M		L	Compact Transceiver		802.3		
1180	10M		L	Fiber Optic Transceiver		802.3		
Raycom Systems, Inc. 303 530-1620								
Bridge + Fiber	10M		R	Fiber Optic Bridge	Y	802.3	1 yr	$7,875+
Bridge+ 1.5	1.544M		R	Remote Bridge	Y	802.3	1 yr	$6,975+
Local Bridge+	10M		L	Local Bridge	Y	802.3	1 yr	$5,875+
Retix 800 255-2333								
4820	128K		R	LAN Bridge		802.3	1 yr	$4,950
4880	2.048M		R	LAN Bridge		802.3	1 yr	$10,400
Richard Hirschmann of America 201 836-5002								
Active Star				Active Star Coupler		802.3		
Siecor Corporation 704 327-5824								
Active Star System	10M	15		Active Concentrator	Y	802.3	1 yr	$1,100/node
EOT-122	10M	15	R	Optical Transceiver	N	802.3	1 yr	$800
EOT-200	10M	15	R	Optical Transceiver	N	802.3	1 yr	$860
EOT-322	10M	15	R	Optical Transceiver		802.3	1 yr	$660
Hybrid Star System	10M	15		Passive Star Coupler	N	802.3	1 yr	$1,000/node
IRL-222H	10M	15	R	Fiber Optic Transceiver	N	802.3	1 yr	$860

ETHERNET DEVICES

Model	Transmission Rate (bps)	# of Pin Connectors	Local/Remote	Type of Device	SQE (Heartbeat)	IEEE Standards	Warranty	Price
Siecor Corporation 704 327-5824 (continued)								
Passive Star System	10M	15		Passive Star Coupler	N	802.3	1 yr	$1,000/node
RL3000	10M	15	L	Coax Transceiver	Y	802.3	1 yr	$249
RL6000L	10M	15	L	Repeater	N	802.3	1 yr	$895
RL6000Li	10M	15	L	Repeater		802.3	1 yr	$1,295
SynOptics Communications 415 691-7036								
2500	10M		L	Workgroup Concentrator			1 yr	$1,295
2510	10M		L	Workgroup Concentrator			1 yr	$1,495
2530	10M		L	Workgroup Concentrator			1 yr	$1,495
2530	10M		L	Concentrator		802.3		$2,995
2600	10M		L	Thinnet Adapter		802.3		$725
502A	10M		L	Shld Twisted Pair Transceiver		802.3		$155
504-ST	10M	15	R	Fiber Optic Transceiver		802.3		$565
505	10M		L	Twisted Pair Transceiver		802.3		$155
System 1000	10M		L	Concentrators			1 yr	$300/port
System 3000	10M		L	Concentrators			1 yr	$350/port
Talaris Systems Inc. 619 587-0787								
T-LAP-Ethernet			L	Controller		802.3	90 d	$1,650
TCL, Inc. 415 657-3800								
2010K	10M			Transceiver	Y	802.3		$235
Telematics 305 772-3070								
Transaction Accelerator			L/R	Transaction Accelerator				$45,000
Versitron 800 537-2296								
Tempest				Fiber Optic Ethernet				
Vitalink Communications Corporation 415 794-1100								
TransLAN 320			R	Bridge		802.3		$9,750
TransLAN 350			R	Bridge		802.3		
TransLAN III			R	Bridge		802.3		
TransRING 550			R	Bridge		802.5		
Xyplex, Inc. 508 264-9900								
MX-REPTR-E1	10M		L	Ethernet Repeater		802.3	3 yrs	$1,495

NETWORKING INTERFACES

Model	# of Lines	Port Contention	Supported Interfaces	LEDs	Board Size	Max Baud Rate (bps)	Transmission Type	Operating Modes	Supported CPUs	Warranty	Price
3Com Corporation 408 562-6400											
CB/1			IEEE 802.3	Y							
IB/1			IEEE 802.3	Y							
IB/2			IEEE 802.3	Y							
Able Computer 714 553-1188											
AT300	2	Y	RS422	Y	H	1M	Sync	FDX		1 yr	$5,200
LS320	4		RS422	Y		1M	Sync	HDX		1 yr	$4,000
MB300			RS422			1M				1 yr	$850

NETWORKING INTERFACES

Model	# of Lines	Port Contention	Supported Interfaces	LEDs	Board Size	Max Baud Rate (bps)	Transmission Type	Operating Modes	Supported CPUs	Warranty	Price
Able Computer 714 553-1188 (continued)											
NC3600				Y		20M	Sync			1 yr	$12,500+
NC480				Y		1M				1 yr	$5,000
RG300 RemoteGate			X.21/V.35	Y		80K		FDX		1 yr	$5,000
Advanced Computer Communications (ACC) 805 963-9431											
ACP 6640	23			Y	H	19.2K	Async				
C & C Technology, Inc. 312 231-0015											
Q-ARC-01	1			Y		2.5M			Q-bus	1 yr	
U-ARC-01	1			Y		2.5M			UNIBUS	1 yr	
cisco Systems, Inc. 800 553-NETS											
SCI	4					4M	Sync	FDX			$7,100
Design Analysis Associates 801 753-2212											
ALID II									Bibus	90 d	
ALID II					Q				UNIBUS	90 d	
ALID II					Q				Q-bus	90 d	
Digital Link Corporation 408 745-6200											
T1-ISO DL551A	1		RJ48C	Y		1.544M				2 yrs	$1,295
T1-ISO DL551C	1		RJ48C	Y		1.544M				2 yrs	$2,095
T1-ISO DL551E	1		RJ48C	Y		1.544M				2 yrs	$795
T1-ISO DL551V	1		RJ48C	Y		1.544M				2 yrs	$2,995
T1-ISO DL551X	1		RJ48C	Y		1.544M				2 yrs	$2,880
Forest Computer 517 349-4700											
NS3000											$37,000
Intel Corporation 602 869-3805											
FASTPATH 9770	128								U/Q	1 yr	$25,000+
Interlink Computer Sciences, Inc. 415 657-9800											
3711S (VM)	8									90 d	
3732 Model 450											
KMW Systems Corporation 512 338-3000											
8900A					Q				U/Q		
8911A					Q				U/Q		
McComb Research 612 298-9561											
ShareNet-5100	256	Y	RS232	Y		115,200				2 yrs	$199
ShareNet-5110	256	Y	RS232	Y		115,200				2 yrs	$199
ShareNet-5120	256	Y	RS232	Y		115,200				2 yrs	$249
ShareNet-5122	256	Y	RS232	Y		115,200				2 yrs	$495
Plexcom, Inc. 805 522-3333											
Plexring 8031			IEEE 802.3						Q-bus		
Simpact Associates, Inc. 619 565-1865											
MAP6000											
MAP6400						10M					
Teltone Corporation 800 426-3926											
DCS-3SE	16		RS232	Y		19.2K	A/S	FDX			
TelLAN M-8201	1		RS232	Y		19.2K	Async				
TelLAN M-8208	8		RS232	Y		19.2K	Async				
TelLAN M-8216	16		RS232	Y		19.2K	Async				

SWITCHING DEVICES

Model	# of Ports	# of Lines	Type of Switch	Transmission Type	Rackmount/ Standalone	Max Baud Rate (bps)	Operating Modes	Queue	Supported Interfaces	Port Contention	Warranty	Price
3Com Corporation 408 562-6400												
LS/1	64		LAN	Async	S	19.2K		Y	802.3	Y		
Able Computer 714 553-1188												
NC3600	3600	3600	Network	Sync	S	38.4K		Y		Y	1 yr	$12,500+
Alantec 415 770-1050												
MLS	6-16		MultiLAN									$9,800
Applied Innovation, Inc. 614 846-9000												
AISwitch Series 90	64	16	Data PBX	A/S	R/S	19.2K	FDX	Y	232/422	Y	1 yr	$105/port
AISwitch Series180	256	4-16	Data PBX	A/S	R/S	19.2K	FDX	Y	232/422	Y	1 yr	$105/port
Aviv Corporation 617 933-1165												
DPS 300	2				R				Pertec		90 d	$2,100
DPS 805	2		Tape		R				STK		90 d	$2,400
MPS 300	6		Tape		R				Pertec		90 d	$6,250
MPS 805	6		Tape		R				STK		90 d	$6,700
QPS 300	4		Tape		R				Pertec		90 d	$3,900
QPS 805	4		Tape		R				STK		90 d	$4,200
Datacom Technologies, Inc. 206 355-0590												
MetroSwitch 412	4	16	Printer	Async	S	19.2K			S/P		1 yr	$269
MetroSwitch 413	4	16	Printer	Async	S	19.2K			S/P		1 yr	$324
MetroSwitch 430	4	20	Printer	Async	S	19.2K			RS232		1 yr	$595
MetroSwitch 431	4	20	Printer	Async	S	19.2K			RS232		1 yr	$745
MetroSwitch 433	4	20	Printer	Async	S	19.2K			RS232		1 yr	$249
Digital Consultants 805 498-4577												
ITM	4	4	Tape		R/S				Pertec		1 yr	$1,950+
Gold Key Electronics, Inc. 603 625-8518												
LN2-HP1	3		Printer		S	19.2K		Y	RS232	Y	1 yr	$549
LN3-HP1	4		Printer		S	19.2K		Y	RS232	Y	1 yr	$749
SW2-2+2	4		Printer		S	19.2K		Y	RS232	Y	1 yr	$749
SW2-HP1	3		Printer		S	19.2K		Y	RS232	Y	1 yr	$549
SW2-ID1	3		Printer		S	19.2K		Y	RS232	Y	1 yr	$549
SW3-HP1	4		Printer		S	19.2K		Y	RS232	Y	1 yr	$749
SW3-ID1	4		Printer		S	19.2K		Y	RS232	Y	1 yr	$749
SW6-HP2	8		Printer		S	19.2K		Y	RS232	Y	1 yr	$1,295
SW6-ID2	8		Printer		S	19.2K		Y	RS232	Y	1 yr	$1,295
Micom Communications Corporation 805 583-8600												
Instanet6000-20	250	250	TDM	A/S	R/S	72K		Y	S/V.35/T1	Y	3 yrs	$5,000+
Instanet6000-40	2036	2036	TDM	A/S	R/S	72K		Y	S/V.35/T1	Y	3 yrs	$9,000+
Omicron Telesystems, Inc. 514 694-3457												
PFS					R/S				RS232			$495+
Racal-Milgo 800 327-4440												
Omnimux 8000	576	8	T1 Multiplexer	A/S	R	19.2K	FDX/HDX		S/V.35	Y	1 yr	$30,000
Omnimux 9000	1584	36	Network	A/S	R	1.536M			S/V.35	Y	1 yr	$25,000+
Omnimux DCS	60	36	DACS	A/S	R	19.2K			S/V.35			$10,000+
Rose Electronics 713 933-7673												
CareTaker	4-8		Scanning		S			Y	S/P	N	1 yr	$195+
CareTaker Plus	4-8		Buffered	Async	S	19.2K			S/P	Y	1 yr	$395+
MasterSwitch Family	2-16		Network	Async	S	115.2K		Y	S/P	Y	1 yr	$295+
Porter	4-8		Code	Async	S	19.2K	FDX	Y	S/P		1 yr	$395+

TERMINAL SERVERS

Model	# of Ports	Character Length (bits)	Supported Interfaces	Internal Modem Control	External Modem Control	Parity Level	Max Baud Rate (bps)	Flow Control	Stop Bits	Rackmount/ Standalone	Warranty	Price
Able Computer 714 553-1188												
CS128	128	5-8	RS232/423	Y	Y	O/E/N	38.4K	Y	1/1.5/2	R	1 yr	$3,750+
DS008	8	8	RS232/423	Y	Y	O/E/N	38.4K	Y	1/1.5/2	S	1 yr	$2,000
DS016	16	8	RS232/423	Y	Y	O/E/N	38.4K	Y	1/1.5/2	S	1 yr	$2,800
Adac Corporation 617 935-6668												
1750	2	5-8	RS232			O/E/N	19.2K		1/1.5/2	R		
Black Box Corporation 412 746-5500												
NTS100	8		RS232				38.4K			S		$2,700
cisco Systems, Inc. 800 553-NETS												
ASM										S		
STS-10	10		RS232			O/E/N	38.4K					$2,995
Communication Machinery Corporation (CMC) 805 968-4262												
TransServer	4-10*		RS232/E	Y						S	90 d	
Computer Products, Inc. 305 974-5500												
GT360										R	1 yr	$265
GT362	16									R	1 yr	$390
GT370	16									R	1 yr	$650
Datability Software Systems, Inc. 800 342-5377												
VCP-1000	8		RS232							R/S		
VCP-1000	128	7/8	RS232	Y	Y	O/E/N	38.4K	Y	1/2	R/S	1 yr	$3,499+
VCP/LC-RS232-8	8		RS232				38.4K			R/S		
VCP/LC-RS423-32	32		RS423				38.4K			R/S		
VCP/NIC-LAT	32											
Emulex 800 EMULEX-3												
PERFORMANCE 4000	32	5-8	RS232/423/P	Y		O/E/N	38.4K	Y	1/1.5/2	R/S	1 yr	$3,890+
Encore Computer Corporation 800 336-2673												
ANNEX II	16		RS232/P	Y			38.4K			R		
ANNEX II	32		RS232/P	Y			38.4K			S		
GEN/COMP, Inc. 617 828-2008												
2031				Y		O/E/N	9600			R	2 yrs	$525
Interlan Inc. 508 263-9929												
INTS/MicroVMS	32		RS232/E							R		$3,225
INTS32/VMS	32		RS232/E							R		$3,850
NTS100	8	5-8	RS232/E	Y		O/E/N	38.4K	Y	1/1.5/2	S		$2,750
NTS200 LAT/TCP	8											$2,750
MDB Systems, Inc. 714 998-6900												
MDB-MDL11		5-7	RS232	Y	Y	O/E/N	19.2K	Y	1/1.5/2	R	1 yr	$868
MLSI-DLV1-ED		5-7	RS232	Y	Y	O/E/N	19.2K	Y	1/1.5/2	R	1 yr	$350
MLSI-DLV11-F		5-7	RS232	Y	Y	O/E/N	19.2K	Y	1/1.5/2	R	1 yr	$350
MUX-T/R-32	32	7/8	RS232/423	Y			38.4K	Y	1	R/S	1 yr	$6,495
Sigma Information Systems 714 630-6553												
SCD-DLV11E	1	5-8	RS232/V.24	Y	N	O/E/N	19.2K	Y	1/1.5/2	R	1 yr	$353
SCD-DLV11J	4	5-8	RS232	Y	N	O/E/N	38.4K	Y	1/2	R	1 yr	$319
SCD-DLV11J/8S	8	7-8	RS232	Y	N	O/E/N	19.2K	Y	1/2	R	1 yr	$657
Simpact Associates, Inc. 619 565-1865												
EXC 1612	12			Y	Y					R		
Systems Concepts, Inc. 415 984-1000												
RX-30			RS232				38.4K			S		
TX-30			RS232				38.4K			S		

TERMINAL SERVERS

Model	# of Ports	Character Length (bits)	Supported Interfaces	Internal Modem Control	External Modem Control	Parity Level	Max Baud Rate (bps)	Flow Control	Stop Bits	Rackmount/ Standalone	Warranty	Price
Xyplex, Inc. 508 264-9900												
MX-ASYNC-J8	8		RS232/423	Y	Y		38.4K			S		

X.25 PAD PROCESSORS

Model	X.25 Firmware	# of Supported Devices	Max Baud Rate (bps)	Processor Board	Distribution Panel	Transmission Type	Connectors	# of Network Ports	Power Requirements	Warranty	Price
Case/Datatel 800 424-4451											
PSX8500								4-64			
Micom Communications Corporation 805 583-8600											
MB2	Y	16	19.2K	Y		Async	Y	1	115/230V	3 yrs	$1,840
MB3	Y	22	19.2K	Y		Async	Y	1/2	115/230V	3 yrs	$2,650
Microtronix Systems, Ltd. 519 681-3430											
CSI-X.25	Y		19.2K	Y	Y	Async			120/220V		
CSI-X.25 Switch	Y		19.2K	Y	Y	Async		6-18	120/220V		
KXT-X.25	Y		19.2K	Y	Y	Async			120/220V		
N.E.T. ComDesign Data Communications Group 805 562-3312											
PacketPlus/50	Y	16	64K	Y	Y	X.25	Y	16	115/230V	1 yr	
TX-700	Y	32	64K	Y	N	Async	Y	1	120/240V	1 yr	$2,145
Simpact Associates, Inc. 619 565-1865											
CPI 2000	Y										

Have You Moved?
Complete and return the enclosed DEC Professional Qualification Form Now!

Ethernet Devices

Advanced Computer Communications (ACC)

■ **ACS 4030**

19.2Kbps • Remote Bridge • Provides protocol independent routing between separate Ethernet networks which are interconnceted via point-to-point communication links • $4,975+

The ACS 4030 is a remote Ethernet bridge that provides transparent connection between multiple Ethernet LANs through point-to-point HDLC/LAPB lines or an X.25 packet switched network.

■ **ACS 4110**

1.544Mbps • Remote Bridge • Provides transparent connection between mulitple LANs • $7,500

The ACS 4110 is a remote Ethernet bridge that provides transparent connection between multiple Ethernet LANs through point-to-point HDLC/LAPB lines. Supports data speeds up to T1 rates.

Alantec

■ **Multi LAN Switch**

160Mbps • Fiber Optic Bridge • Interconnects up to 16 networks, up to 10km, while providing advanced filtering and network management features • $9,800

Maintains three databases for self-learning address tables, custom filtering, and network groups. Especially suited for networks supporting high-performance workstations.

■ **SMARTBridge 1000**

Bridge

Boosts, tracks and analyzes network performance while providing transparent communications for large multiprotocol Ethernet LANs.

■ **SMARTBridge 2000**

10Mbps • Bridge • Allows transmission up to 10km.

Provides remote ALANTEC bridge management through IP routers on a TCP/IP network, enhanced graphic display output, and selective filtering of network data for enhanced routing and security.

■ **SMARTLan Manager**

10Mbps • Network Management • Provides dynamic control, configuration and reallocation of network resources based on network traffic loads or failures.

Allied Telesis, Inc.

■ **CentreCOM 104**

10Mbps • Thinnet Coax Transceiver • Used to make device tap to Ethernet cable and is equivalent to DEC's H4000 model • $199

Small cable tap tranceiver that may be pulled into a small cable conduit. It also is equipped with a BNC-JACK coax connector.

■ **CentreCOM 105**

10Mbps • Coax Transceiver • Used to make device tap to Ethernet cable and is equivalent to DEC's H4000 model • $169

Tranceiver that may be pulled into a small cable conduit.

■ **CentreCOM 106**

10Mbps • Thicknet Coax Transceiver • Used to make device tap to Ethernet cable and is equivalent to DEC's H4000 model • $199

Small cable tap tranceiver that may be pulled into a small cable conduit. Equipped with a non-intrusive (vampire or stinger) type connector. Requires an installation tool kit (AT-1220-K).

■ **CentreCOM 107**

10Mbps • Thinnet Coax Transceiver • Used to make device tap to Ethernet cable and is equivalent to DEC's H4000 model • $199

Small cable tap tranceiver that may be pulled into a small cable conduit. Equipped with a BNC-T type coax connector.

■ **CentreCOM 108**

10Mbps • Thicknet Coax Transceiver • Used to make device tap to Ethernet cable and is equivalent to DEC's H4000 model • $199

Small cable tap tranceiver that may be pulled into a small cable conduit. Equipped with an N series type connector.

■ **CentreCOM 1604**

10Mbps • Multiple Transceiver • May be used to create standalone networks or as a concentrator to group several devices onto a single tap of an Ethernet coaxial cable • $1,145

Connects eight stations for remote operation and may be cascaded to serve 256 stations. Equipment linked to the 1604 may be isolated from the main network while still allowing local connectivity and networking. Modular to 16 ports; equivalent to the DEC DELNI.

■ **CentreCOM 1608**

10Mbps • Multiple Transceiver • May be used to create stand-alone networks or as a concentrator to group several devices onto a single tap of an Ethernet coaxial cable • $1,795

Connects 16 stations for remote operation and may be cascaded to serve 256 stations. The equipment linked to the 1604 may be isolated from the main network while still allowing local connectivity and networking. Modular to 16 ports; equivalent to the DEC DELNI.

■ **CentreCOM 2000**

1/10Mbps • MAC Layer Learning Bridge • Connects Ethernet-to-Ethernet or Ethernet-to-StarLAN networks • $2,950

May be used to solve network interconnection problems and alleviates network congestion by partitioning.

■ **CentreCOM 204**

10Mbps • Thinnet Coax Transceiver • Used to make device tap to Ethernet cable and is equivalent to DEC's H4000 model • $225

Small cable tap tranceiver that may be pulled into a small cable conduit. Equipped with a BNC-JACK coax connector. The CentreCOM 2xx series features additional status LEDs.

■ **CentreCOM 205**

10Mbps • Coax Transceiver • Used to make device tap to Ethernet cable and is equivalent to DEC's H4000 model • $199

Tranceiver that may be pulled into a small cable conduit.

■ **CentreCOM 206**

10Mbps • Thicknet Coax Transceiver • Used to make device tap to Ethernet cable and is equivalent to DEC's H4000 model • $225

Small cable tap tranceiver that may be pulled into a small cable conduit. Equipped with a non-intrusive (vampire or stinger) type connector. Requires an installation tool kit (AT-1220-K).

■ **CentreCOM 207**

10Mbps • Thinnet Coax Transceiver • Used to make device tap to Ethernet cable and is equivalent to DEC's H4000 model • $225

Small cable tap tranceiver that may be pulled into a small cable conduit. Equipped with a BNC-T type coax connector.

■ **CentreCOM 208**

10Mbps • Thicknet Coax Transceiver • Used to make device tap to Ethernet cable and is equivalent to DEC's H4000 model • $225

Small cable tap tranceiver that may be pulled into a small cable conduit. Equipped with an N series type connector.

■ **CentreCOM 250**

10Mbps • Dual Port Transceivers • Provides electronic and physical interfaces between Ethernet coaxial cable and Ethernet DTEs

Available in a variety of configurations and features user selectable switches and extensive LED status indicators.

■ **CentreCOM 2900**

10Mbps • MAC Level Bridge • Provides an efficient way to connect homogeneous or heterogeneous networks using different media.

Provides connectors for the following network types: (1) a sub-miniature connector for thick Ethernet/10BASE5 and (2) an RJ45 connector for StarLAN/BASE5.

■ **CentreCOM 2920**

10Mbps • MAC Level Bridge • Provides an efficient way to connect homogeneous or heterogeneous networks using different media.

Provides the same connectors as the CentreCOM 2900 including a BNC connector for thin Ethernet/10BASE2.

■ **CentreCOM 5000**

10Mbps • Multimedia Concentrator • Allows networks utilizing different media to be designed and installed and concentrated on a single device • $1,295

May be (1) used as a standalone hub for remote stations or (2) connected to existing Ethernet segments or (3) operated in local mode. It also may be daisy-chained or cascaded with other CenterCOM 5000 devices.

■ **CentreCOM 800**

10Mbps • Multiple Transceiver • Connects eight stations for remote operation through one cable tap, which may be cascaded to serve 64 stations • $945

Equipment linked to the 800 may be isolated from the main network while maintaining local connectivity and networking. Applications include securing data from general traffic, local maintenance, and alterations in network configurations. Equivalent to the DEC DENI.

BICC Data Networks, Inc.

■ **1112-1**

10Mbps • Slimline Tranceiver • Provides a connection to local baseband CSMA/CD networks.

This unit is equipped with a cable piercing tap for standard Ethernet cables.

■ **1112-2**

10Mbps • Slimline Tranceiver • Provides a connection to local baseband CSMA/CD networks.

This unit is equipped with an N series tap for standard Ethernet cables.

■ **1112-3**

10Mbps • Slimline Tranceiver • Provides a connection to local baseband CSMA/CD networks.

This unit is equipped with BNC connectors for use with thin Ethernet cables.

■ **1113-1**

10Mbps • Slimline Tranceiver • Provides a connection to local baseband CSMA/CD networks.

This unit is equipped with a cable piercing tap for standard Ethernet cables.

■ **1113-2**

10Mbps • Slimline Tranceiver • Provides a connection to local baseband CSMA/CD networks.

This unit is equipped with an N series tap for standard Ethernet cables.

■ **1113-3**

10Mbps • Slimline Tranceiver • Provides a connection to local baseband CSMA/CD networks.

This unit is equipped with BNC connectors for use with thin Ethernet cables.

■ **1114**

10Mbps • Transceiver • Receives and transmits data and detects data collision • $295

Features interchangeable cable piercing and N series or BNC connector taps.

■ **1120**

10Mbps • Repeater • Connects two segments of a local baseband CSMA/CD network.

When used in conjunction with BICC's Isolan tranceivers, the 1120 repeater connects five standard Ethernet cable segments, thin Ethernet segments, or standard and thin Ethernet segments.

■ **1125**

10Mbps • Thin Ethernet Repeater • Provides a connection between a large number of network segments in a baseband CSMA/CD network.

This unit is equipped with six thin Ethernet ports and two AUI ports.

■ **1126**

10Mbps • Fiber Optic Repeater • Provides a connection between a large number of network segments in a baseband CSMA/CD network.

This unit is equipped with seven fiber ports and one AUI port.

■ **1130**

10Mbps • Fan Out Unit • Connects a group or cluster of external data processing equipment to a baseband CSMA/CD network.

The 1130 acts as a transceiver multiplexer and provides the full data rate of the network to up to eight AUI connections.

■ **1150**

10Mbps • Fiber Optic Repeater • Interconnects two segments of a local baseband CSMA/CD network that may be located in different buildings.

To configure the interconnection of LAN segments between buildings, two units are required, separated by BICC's Isolan transceiver and an AUI cable. Each unit performs loopback of data, jabber protection, 100% reliable collision detection, idle signal modulation, and loss of light detection and indication.

■ **1160-0**

10Mbps • Fiber Optic Hub • Allows remote copper segments to be interconnected in a

cost-efficient manner via optical repeaters through a central remote star.
This unit is equipped with six fiber ports and one AUI port. It is used in conjunction with BICC's Isolan Fiber Optic Repeaters, which are connected to each copper segment. It forms the basis of a simple star network, providing a means of connecting nodes up to 2km onto an all fiber network.

■ **1160-1**
10Mbps • Fiber Optic Hub • Allows remote copper segments to be interconnected in a cost-efficient manner via optical repeaters through a central remote star.
This unit is equipped with 12 fiber ports and one AUI port. It is used in conjunction with BICC's Isolan Fiber Optic Repeaters, which are connected to each copper segment. It forms the basis of a simple star network, providing a means of connecting nodes up to 2km onto an all fiber network.

■ **1180**
10Mbps • Fiber Optic Tranceiver • Provides a connection between a variety of DTEs or PCs and fiber optic baseband CSMA/CD local area networks.
This unit performs loopback of data, jabber protection, 100% reliable collision detection, idle signal modulation, and loss of light detection and indication.

■ **1400**
10Mbps • Primary Bridge • Connects two CSMA/CD IEEE 802.3 or Ethernet networks and filters unnecessary traffic.
Learns the source addresses on either side of the bridge and then only forwards a packet across to the other side if the destination is not on the originating network.

■ **1410**
Bridge • $7,500
The 1410 may be used in conjunction with BICC's ISOVIEW Network Manager ($5,995) that controls the functions of the 1410 from a single location. It gathers statistics on network events and monitors the entire network.

Black Box Corporation

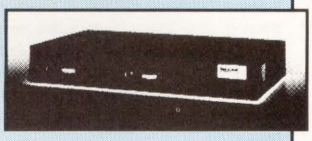
■ **Fan Out Unit**
10Mbps • Fan Out Unit • Allows eight DTE devices to share one transceiver and creates a standalone star network without trunk cable • $1,250
Provides the full data rate of the network to each AUI connection.

■ **Fiber Optic Repeater**
10Mbps • Fiber Optic Repeater • Connects two LAN segments up to 4000 feet, providing electrical isolation and low error rates • $2,180
Features preamble regeneration, fragment extension, data retiming and auto-partitioning of faulty segments. Two fiber optic repeaters are needed and must be used with non-SQE transceivers.

■ **Local Repeater**
10Mbps • Repeater • Connects two Ethernet segments and transmits retimed data packets between each segment • $1,460
Regenerates preamble and extends collision fragmetns. Also performs automatic partitioning and reconnection functions in the event of a segment failure.

Black Box Corporation

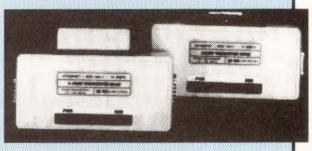
Black Box Corporation



■ **Ethernet Bridge**
10Mbps • Ethernet Bridge • Partitions Ethernet LANs into two segments and reduces traffic. Passes only the data packets destined for devices on other segments. All other data is filtered out and denied passage • $2,795
Cut down on heavy network traffic with a Black Box Ethernet Bridge. Two good reasons for a local bridge: (1) to localize traffic and boost slow network performance and (2) to add length to a maxed-out topology. Three good reasons for an Ethernet Bridge from Black Box: (1) it "learns" routes through LANs, (2) it has a high filter rate (13,500 frames per second) and a forward rate (8,000 frames per second), and (3) it's only $2,795 (order code NK-LB001B).
All the reasons add up to one name, Black Box. Black Box stocks WAN bridges as well: (1) Ethernet (NK-LB040) at $6,600 and (2) Fiber Optic (NK-LB019) at $8,750. Black Box features these and other products in The LAN Catalog. To order the bridge or the catalog, call 412 746-5530.

Black Box Corporation

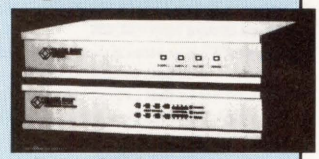
Black Box Corporation



■ **Ethernet Transceiver-2**
10Mbps • Transceiver • Detects collisions on coaxial cables and protects the network from errant transmissions • $260
Black Box stocks one of the largest selection of transceivers available: (1) Single-port Transceivers BNC model (NK-LN002) at $189 and Vampire (NK-LN001) at $189, (2) Dual-port Transceivers BNC model (NK-LE051A) at $425 and Vampire (NK-LN050A) at $425, (3) Four-port Transceivers BNC model (NK-LE053A) at $699 and Vampire NK-LE052A at $699, (4) Fiber Optic Transceivers (NK-LE020B) at $645 and (5) Fan Out Units (NK-LN430B) that connect eight DTEs to an Ethernet backbone with one transceiver at $1,250. Black Box features these and other network products in The LAN Catalog. Call 412 746-5530 to order or receive a copy of our catalog.

Black Box Corporation

Black Box Corporation



■ **Multiport Repeater**
10Mbps • Multiport Repeater • Forms central segments of ThinNet Ethernet in star topology or connects up to six Ethernet segments • $2,900
Black Box stocks the network repeater you're looking for including (1) Local Repeater (NK-LN420B) at $1,460, (2) Multiport Repeater (NK-LN410B) at $2,900, (3) Fiber Optic Repeater (NK-LN320B) at $2,180, and (4) Fiber Optic Multiport Repeater (NK-LE415B) at $7,800. Black Box features these and other network products in The LAN Catalog. Call 412 746-5530 to order your repeater or receive a copy of our catalog.

Cabletron Systems, Inc.

■ **CPT-100**
15 Mbps • Twisted Pair Media Adapter • Allows network designers to interconnect existing thin Ethernet devices into newly installed schemes.
Designed for use with Cabletron's twisted pair product line; daisy chains thin Ethernet connections from one twisted pair segment. Connects directly to an on-board RJ-45 port and supports up to ten nodes.

■ **FOT-1**
10Mbps • Fiber Optic Transceiver • Assists managers in troubleshooting the network.
Supports a full 10Mbps Ethernet data rate over fiber optic cable. Features selectable SQE test and provides one standard AUI connector and one fiber optic connector. Use with the FR-3000 and the FOT-MIM in the MMAC hub.

■ **FR3000**
10Mbps • Fiber Optic Repeater • Interconnects two thick or thin Ethernet coax segments up to 2000 meters • $2,650
Functions include: (1) transmission of data packets, (2) regeneration of preamble, (3) extension of collision fragments, (4) automatic partitioning of problem segments and (5) automatic reconnection of non-problem segments.

■ **IRM**
10Mbps • Intelligent Repeater Module • Provides flexibility in network design by allowing users to expand the networks over a variety of media.
Features three-tiered management and control, total redundancy, and an automatic or manual reconfiguration connection, and allows access to password protected module through the network or via a dual RS232 connector.

■ **LR2000**
10Mbps • Repeater • Interconnects two thick or thin Ethernet coaxial segments • $1,365
Functions include: (1) transmission of data packets, (2) regeneration of preamble, (3) extension of collision fragments, (4) automatic partitioning of problem segments and (5) automatic reconnection of non-problem segments.

■ **MR9000 C**
10Mbps • Thin Mulitport Repeater • Connects up to eight thick or thin Ethernet segments together • $2,795
Functions include: (1) transmission of data packets, (2) regeneration of preamble, (3) extension of collision fragments, (4) automatic partitioning of problem segments and (5) automatic reconnection of non-problem segments.

■ **MR9000TPT**
10Mbps • Multiport Repeater • Retimes data packets, generates preambles and automatically partitions problem segments • $2,895
The MR9000TPT allows network designers to attach up to eight Ethernet network devices to networks, using inexpensive shielded or unshielded twisted pair cabling.

■ **MT800**
10Mbps • Multiport Transceiver • Implements transmit, receive and collision functions for up to eight ports • $975
Provides eight ports connecting to Ethernet host units and features a selectable SQE test. User selectable for standalone use or for attachment to the network backbone.

■ **NB20E**
MAC-level Bridge • Connects to two or more segments to create extended-distance LANs and isolates traffic on heavy utilized segments • $2,995
The NB20E is a low cost bridge which applies a software hashing algorithm to process as many as 15K packets per second with a forwarding rate of 8K packets per second.

■ **NB25E**
MAC-level Bridge • Connects to two or more segments to create extended-distance LANs and isolates traffic on heavily utilized segments • $5,495
High performance bridge that utilizes a hardware filter to process data up to 28K packets per second with a forwarding rate of 10K packets per second.

■ **ST500**
10Mbps • Transceiver • Assists installers of LANs by troubleshooting problem areas • $275
Adaptable for thick or thin Ethernet cable and features a selectable SQE test and offers (1) nonintrusive tap, (2) intrusive N Series tap, and (3) BNC tap connections.

■ **THN-MIM**
10Mbps • Coaxial Media Module • Provides flexibility in network design by allowing users to expand the networks over a variety of media.
Module that allows users to expand their networks over a variety of media types. Each module provides 12 IEEE 802.3/Ethernet thick or thin segment connections.

■ **TMS-3**
10Mbps • Thin Ethernet Transceiver • Assists installers of LANs utilizing thin Ethernet cables by troubleshooting problem areas • $185
Provides basic transmit/receive functions. Features a lightweight design that complements thin Ethernet cabling applications. Installed in areas of thin Ethernet networks previously restricted by bulky, heavier transceivers.

■ **TPT-2**
10Mbps • Twisted Pair Transceiver • Connects to Cabletron's MT-800 Multiport Transceiver or to the host via an AUI cable.

Supports a full 10Mbps Ethernet data rate over shielded or unshielded twisted pair cable. Connects two active Ethernet devices such as repeaters, multiport repeaters and host devices using twisted pair cabling.

Canoga-Perkins

■ **4020**

10Mbps • Fiber Optic Extender • Extends the normal 50 foot limitation on copper cable to more than 10km depending upon the type of optics used • $3,095

Allows CPUs with DACU interfaces to be located long distances from graphics controllers, printers, and other CPUs.

■ **8801**

Line Monitor • Directly measures all signals in the transceiver cable while indirectly monitoring signals in the coaxial cable • $155

The 8801 mounts directly on the transceiver and provides four pairs of buffered test points for the four active signals.

■ **8802**

10Mbps • Fiber Optic Repeater • $1,295

■ **8803**

Transceiver • Connects a LAN device to a baseband coaxial cable • $265

The 8803 offers Vampire or Obstrusive taps for Ethernet cables and a Thin Ethernet tap for RG-58 cable. It supports up to 100 taps attached per 500 meter segments, 2.5 meters apart.

■ **8806**

10Mbps • Expander • Extends the distance between transceivers and controllers up to 250 meters • $245

The 8806 supports AC/DC coupling, back-to-back frames, and signal compatibility.

■ **8820**

10Mbps • LAN Hub • Allows up to eight Ethernet devices to share one transceiver or RF modem • $1,300

The 8820 prevents collisions between port devices and may be configured to form a daisy chain or cascaded network. It also operates in loopback mode as part of a standalone, non-cable network without a transceiver.

Casat Technology, Inc.

■ **4000 Series**

10Mbps • LAN Hub • Creates small workgroups or departmental LANs by connecting up to eight workstations or DTEs • $1,295

A star or tree hub that may be cascaded to three levels. Unique LANCAST collision avoidance circuitry provides increased throughput. May be connected to backbone.

■ **ENT-4303**

10Mbps • Transceiver • Provides trouble-free connections from LAN devices to baseband coaxial cable networks • $265

IEEE 802.3 transceiver for coax media conections. Features transmit, receive, collision and power LEDs in remote devices attached to nodes. Provides simplified verification of operation and diagnostics.

Chipcom Corporation

■ **7000H**

10Mbps • LAN-to-LAN MultiMedia Hub • Modular multiport repeater • $1,495

Chipcom's LAN-to-LAN MultiMedia Hub is a modular, multiport repeater that provides a central platform for connecting multisegment multimedia Ethernet networks.

■ **8023FT**

10Mbps • Frequency Translator • Receives signals on the reverse band and translates the signals up in frequency by 192.25 MHz to the desired forward band • $4,400

The 8023FT is another Ethermodem product that is used only in single cable broadband networks that extends the Ethernet network to 4900 meters when used with Ethermodems.

■ **8312BS**

10Mbps • Bridge • Connects broadband and baseband Ethernet networks to expand coverage and capacity • $8,950

This model supports a 12Mhz single cable EtherModem network and features redundancy and loop detection.

■ **8312HE**

Ethermodem Remodulator • Receives signals on the reverse band and translates the signals up in frequency by 192.25MHz to the desired forward band • $7,900

■ **8312MS**

10Mbps • Ethermodem Transceiver • Connects Ethernet V2.0 and IEEE 802.3 devices over broadband LANs on 12MHz of bandwidth • $5,150

The 8312MS is a single cable configuration that supports eight ports. It uses existing broadband cable and connects with standard IEEE 802.3 transceiver cable, eliminating the need for additional cables.

■ **8312S**

10Mbps • Ethermodem Transceiver • Connects Ethernet V2.0 and IEEE 802.3 devices over broadband LANs on 12MHz of bandwidth • $3,950

The 8312S is a single cable configuration that supports two ports. It uses existing broadband cable and connects with standard IEEE 802.3 transceiver cable, eliminating the need for additional cables.

■ **8318BD**

10Mbps • Bridge • Connects braodband and baseband Ethernet networks to expand coverage and capacity • $8,950

This model supports an 18Mhz dual cable EtherModem network and features redundancy and loop detection.

■ **8318BS**

10Mbps • Bridge • Connects a baseband Ethernet running on standard or thin coaxial cable to a broadband Ethernet network • $8,950

This model supports an 18Mhz single cable EtherModem network and features redundancy and loop detection.

■ **8318MS**

10Mbps • Broadband Transceiver • Connects baseband Ethernet nodes to broadband networks • $5,150

The 8318MS is a single cable configuration that supports eight ports. Please note that this model requires a Chipcom Frequency Translator or Remodulator.

■ **8318S**

10Mbps • Broadband Transceiver • Connects baseband Ethernet nodes to broadband networks • $3,950

The 8318S is a single cable configuration that supports two ports. Please note that this model requires a Chipcom Frequency Translator or Remodulator. The entire family of Chipcom's Ethermodems allow users to select the frequencies at which the Ethernet will run.

■ **8412BS**

10Mbps • Bridge • Interconnects Ethernet IEEE 802.3 subnetworks over IEEE 802.4 token bus broadband backbone • $9,950

Extends networks up to 12 miles, providing up to three data channels on broadband cables without the need for guard bands, offering greater total network capability and longer distances, yet using less bandwidth.

■ **9308S**

10Mbps • Fiber Optic Network • Interconnects all devices including minicomputers, engineering workstations, PC networking servers and bridges • $4,150

System consists of a transceiver with a single AUI port and an active star coupler with eight ports, redundancy features such as up-links and a temperature control fan.

■ **9314S**

10Mbps • Fiber Optic Network • Interconnects all devices including minicomputers, engineering workstations, PC networking servers and bridges.

System consists of a transceiver with a single AUI port and an active star coupler with 14 ports, redundancy features such as up-links and a temperature control fan.

cisco Systems, Inc.

■ **HyBridge**

Hybrid Bridge Router • Allows DECnet to interoperate with TCP/IP and other protocols • $5,950

Full performance network-level router that simultaneously provides the ability to fall back to bridging functions in specified cases.

Communication Machinery Corporation (CMC)

■ **DRN-1700**

Ethernet Monitor • Provides information on the status of the Ethernet network • $6,200

The DRN-1700 is equipped with a 14" monitor, 80 columns x 25 rows, a keyboard with 16 function keys and an RS232 printer interface. It also features an 80186 CPU at 7.4MHz with a trace memory size of 192KB. It monitors both single machines and total networks and provides traffic generation, statistics, testing, and summary information.

■ **DRN-3100**

Ethernet Bridge • Links two Ethernet LANs together.

The DRN-3100 features multiple 10MHz 68000 processors, 512KB DRAM, 16-128KB EPROM, and 8KB EEPROM.

■ **DRN-3200**

DDN-Ethernet Gateway • Connects Ethernet and DDN networks together.

The DRN-3200 features multiple 10MHz 68000 processors, 640KB DRAM, 16-128KB EPROM, and 2-16KB EEPROM.

■ **EMO-50**

Runs the communication protocols between Q-bus hosts and other devices on the Ethernet.

■ **ENP-40**

Runs communication protocols between UNIBUS hosts and other devices on the Ethernet.

The ENP-50 and -40 feature sophisticated diagnostics, on-board processing, and 12.5MHz 68010 microprocessors.

■ **Transerver**

Ethernet Terminal Server • Interfaces terminal groups to an Ethernet LAN, supporting either four or ten terminals.

The Transerver features a 10MHz 68000 processor at 10MHz, 512KB DRAM, 128KB EPROM, and 8KB EEPROM. It supports asynchronous RS232 line interface channels.

CrossComm Corporation

■ **ILAN**

Ethernet and StarLAN Bridge • Provides protocol transparent connectivity between multiple similar and/or dissimilar LANs.

Plug-in interface modules that (1) bridge two or more Ethernet or StarLANs, (2) bridge between Ethernet and StarLAN networks, and (3) connect Ethernet/StarLAN LANs to WANs.

■ **ILAN-1**

LAN Bridge • Provides protocol transparent connectivity between multiple similar and/or dissimilar LANs.

Connects Ethernet, StarLAN, Twisted Pair, Fiber Optic, Token Ring, and T1 networks. Also contains IMS-1 management software and a spanning tree algorithm.

■ **NTB**

1.544Mbps • WAN Bridge • Connects Novell Netware LANs using high speed telecommunication lines.

Installs in Novell (Network Products Corporation) file servers and external bridges to provide high-speed connectivity.

■ **T1 Interface**

1.544Mbps • T1 Interface • Connects multipe LANs using high- speed telecommunication facilities in ILAN nodes.

Plug-in interface module that features AMI/B8ZS coding and D4/ESF framing (DS1 interface) and is also available with an RS422 option with data rates of up to 2.048Mbps.

David Systems, Inc.

■ **David ExpressNet**

10Mbps • Star with central Hub • Links Ethernet devices into high-speed networks using unshielded twisted-pair wiring, allowing workgroups to access and share computing resources • $2,495

Computers may be located up to 100 meters from the Hub and may also be cascaded to support greater distances and up to 1024 nodes. Used with TP-MAU adapter units.

Excelan, Inc.

■ **EXOS 203**

10Mbps • Intelligent Controller • Connects a Q-bus system to an Ethernet LAN • $2,530

The EXOS 203 controller offloads the most CPU-intensive protocol processing functions from the Q-bus system.

■ **EXOS 204**

10Mbps • Controller • Connects a UNIBUS system to an Ethernet LAN • $2,230

The EXOS 204 controller offloads the most CPU-intensive protocol processing functions from the UNIBUS system.

■ **EXOS 204-4**

10Mbps • Intelligent Controller • Connects a UNIBUS system to an Ethernet LAN • $2,120

The EXOS 204-4 offloads the CPU-intensive protocol processing functions from the

UNIBUS systems.

■ **EXOS 304**

10Mbps • Intelligent Controller • Connects a UNIBUS system to an Ethernet LAN • $3,520

The EXOS 304 uses an Intel 80286 microprocessor to offload network tasks from the UNIBUS system. Offers up to an 85% performance increase.

FiberCom, Inc.

■ **WhisperLAN/DPT**

10Mbps • Fault Tolerant Transceiver • Connects between a redundant fiber backbone and Ethernet devices • $2,500

Connects between a redundant fiber optic backbone and Ethernet/IEEE 802.3 compatible devices. Multiple levels of fault tolerance are achieved. Ideal for high reliability requirements.

■ **WhisperLAN/MPT**

10Mbps • Fiber Optic Transceiver • Connects between a fiber backbone and eight Ethernet devices • $2,500

Connects a fiber optic backbone to up to eight Ethernet/IEEE 802.3 compatible devices; up to 100 transceivers may be connected up to 4km.

■ **WhisperLAN/PC**

10Mbps • Fiber Optic Transceiver • Connects between a fiber backbone and IBM/PC or compatibles on internal board • $1,750

Connects PC compatible to fiber optic backbone. Includes Ethernet controller with fiber transceiver on a single board.

■ **WhisperLAN/RPT**

10Mbps • Transceiver/Repeater • Connects between a fiber backbone and transceiver on another Ethernet segment • $1,500

Combines a fiber transceiver and an Ethernet repeater in a single unit. Up to 100 devices may be connected to 4km.

■ **WhisperLAN/SPT**

10Mbps • Fiber Optic Transceiver • Connects between a fiber backbone and Ethernet device • $1,100

Connects a fiber optic backbone to any Ethernet/IEEE 802.3 compatible device. Up to 100 transceivers may be connected up to 4km.

Fibermux Corporation

■ **CC 44652**

LAN Bridge • Stores and forwards data packets, filters out illegal packets, and regenerates and retimes data signals.

Transfers Ethernet traffic through the network, providing distances between Fibermux's FX4400 multiplexer, limited only by the fiber type and optical gain. Also supports V2.0.

■ **CC 44652**

4.7Mbps • LAN Bridge • Stores and forwards data packets, filters out illegal packets, and regenerates and retimes data signals.

Transfers Ethernet traffic through the network, providing distances between Fibermux's FX 4400 multiplexer, limited only by the fiber type and optical gain.

■ **FX701**

10Mbps • Repeater • Regenerates and retimes all data signals, restoring them to original quality.

Connects two segments of a V2.0 or IEEE 802.3 LAN by way of an Ethernet transceiver (AUI) cable or duplex optical fiber cable up to 1000 meters in length, or BNC (Thin Ethernet).

Interlan Inc.

■ **8-4-1**

10Mbps • Multiport Transceiver • Connects eight devices to the Ethernet using only one tap into the coaxial cable • $995

May be cascaded in a standalone or networked mode and is used to either expand an exisitng LAN or to create an independent network.

■ **IB10**

10Mbps • Bridge • Connects an Ethernet LAN to a StarLAN • $2,295

Increases network performance and size, automatically engages backup units to provide fault tolerance, and reports abnormal conditions on the network. Examines 14K packets per second from the Ethernet side and transmits 1.4K packets per second.

■ **IB30**

10Mbps • Bridge • Transparently connects two standard or two thin Ethernet LANs • $2,295

Increases network performance and size, automatically engages backup units to provide fault tolerance, and reports abnormal conditions on the network. Examines 14K packets per second and transmits 6K packets per second.

■ **IB3000**

10Mbps • Bridge • Transparently connects two standard or thin Ethernet LANs • $4,495

Increases network performance and size, automatically engages backup units to provide fault tolerance, and reports abnormal conditions on the network. Examines 28K packets per second and transmits 6K packets per second.

■ **NT100**

10Mbps • Transceiver • Connects hosts and terminal servers to standard or Thin Ethernet cabling systems • $290

Detects collisions on the coaxial cable, provides electrical isolation of the station from the coaxial cable and protects the network from errant transmissions. Features AC coupling and jabber control.

■ **NT1000**

10Mbps • Transceiver • Provides physical layer connections to standard and thin Ethernet cables.

Detects packet collisions on the coaxial cable, protects the network from errant transmissions, and electrically isolates the node from the coaxial cable. Features AC coupling and jabber control.

Kinetics, A Division of Excelan

■ **Ethernet SEL**

10Mbps • Controller for Macintosh SE • Connects an entire AppleTalk network to an Ethernet LAN • $695

The EtherPort SEL, developed in conjunction with SynOptics Communications, Inc., connects the Macintosh SE directly to a LattisNet Ethernet network, where it communicates with a variety of hosts and peripherals.

■ **EtherPort II**

10Mbps • Controller for Macintosh II • Interconnects the Macintosh II, IIx, and IIcx to an Ethernet LAN and allows communication with other Macintosh computers and network peripherals • $695

The EtherPort II controller board connects the Macintosh II directly to an Ethernet network where it communicates with a variety of Ethernet hosts and peripherals.

■ **EtherPort IIL**

10Mbps • Controller for Macintosh II • Connects an entire AppleTalk network to an Ethernet LAN • $695

The EtherPort IIL, developed in conjunction with SynOptics Communications, Inc., connects the Macintosh II directly to a LattisNet Ethernet network, where it communicates with a variety of hosts and peripherals.

■ **EtherPort SE**

10Mbps • Controller for MAC SE • Allows true AppleTalk software to use high speed high bandwidth Ethernet, transparent to any applications • $695

The EtherPort SE controller board connects the Macintosh SE directly to an Ethernet network where it communicates with a variety of Ethernet hosts and peripherals.

■ **EtherPort SE/30**

10Mbps • Controller for Macintosh SE/30 • Connects an entire AppleTalk network to an Ethernet LAN • $795

The Ethernet SE/30 controller board connects the Macintosh SE/30 directly to an Ethernet network where it communicates with a variety of Ethernet hosts and peripherals.

■ **EtherPort SE/30L**

10Mbps • Controller for Macintosh SE/30 • Connects an entire AppleTalk network to an Ethernet LAN • $795

The Ethernet SE/30L, developed in conjunction with SynOptics Communications, Inc., connects the Macintosh SE/30 directly to a LattisNet Ethernet network, where it communicates with a variety of hosts and peripherals.

■ **EtherSC**

10Mbps • Controller for Macintosh • Connects the Macintosh to an Ethernet using a SCSI interface • $1,150+

The EtherSC external Ethernet controller connects a Macintosh II, Macintosh SE/30, Macintosh SE, or Macintosh Plus directly to an Ethernet network. The Macintosh communicates with a variety of Ethernet hosts and peripherals.

■ **FastPath 4**

10Mbps • AppleTalk-Ethernet Gateway • Connects an entire AppleTalk network to an Ethernet LAN • $2,795

The FastPath 4 gateway connects AppleTalk networks to Ethernet networks, allowing the Macintosh on AppleTalk to communicate with a variety of Ethernet hosts and peripherals. LANRanger network management software is included.

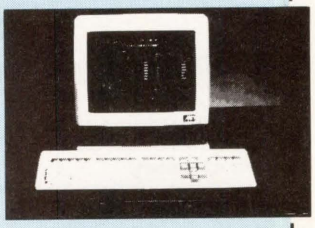
Method Systems, Inc.

■ **FiberLink I**

15Mbps • Fiber Optic Transceiver • Carries digital data at high speeds up to 6000 feet through noisy or hazardous environments • $395

The FiberLink I provides point-to-point fiber optic channel for equipment using RS232, RS422, RS485, or TTL interfaces.

Micro Technology, Inc.



■ **LANager**

Network Analyzer • Troubleshoots network problems and provides realtime information about the network • $20,500+

LANager is a standalone Ethernet 802.3 compatible network analyzer designed to troubleshoot network problems and provide realtime information about the network to management. LANager is a diagnostic tool utilized like a network microscope. It provides a detailed view of everything going on inside the network. It cuts through all seven layers of the ISO model, performing the decoding, translating and interpreting of the frame. Then in simple English, it gives useful information about the content of the frame such as its Ethertype, addresses (source and destination), timing, packet size, cumulative byte count and network utilization data.

■ **MEQNA**

MEQNA offers complete software compatibility with DECnet, LAVC and LAT while conforming to the data link and physical layer functions of Ethernet specifications.

■ **MESTA**

10Mbps • Thin Wire Transceiver • Provides for the sensing of collisions and is selectable to run in receive mode or transmit mode • $300

Features jabber control (auto reset), jabber timeout and jabber reset time. Direct push mount and no drop cable needed.

Microcom, Inc.

■ **MLB/1000**

19.2Kbps • LAN Bridge • Connects LANs at high speeds over dial-up, ISDN or dedicated leased lines.

Turnkey bridge system with a dial-up WAN interface, a LAN interface that features MNP data compression, packet filtering, security, and network management capabilities.

■ **MLB/1200**

30Kbps • LAN Bridge • Connects LANs at high speeds over dial-up, ISDN or dedicated leased lines.

Turnkey bridge system with a dial-up WAN interface, a LAN interface that features MNP data compression, packet filtering, security, and network management capabilities.

■ **MLB/2000**

500Kbps • LAN Bridge • Connects LANs at high speeds over dial-up, ISDN or dedicated leased lines.

Turnkey bridge system with a leased line WAN interface, a LAN interface that features MNP data compression, packet filtering, security, and network management capabilities.

■ **MLB/2500**

500Kbps • LAN Bridge • Connects LANs at high speeds over dial-up, ISDN or dedicated leased lines.

Turnkey bridge system with a leased line WAN interface, a LAN interface that features MNP data compression, packet filtering, security, and network management capabilities.

Optical Data Systems

■ **ODS 234**

10Mbps • Fiber Optic Transceivers • Provides a fiber optic interface to copper Ethernet transceivers in the network.

Designed to plug into a thickwire Ethernet transceiver to provide a fiber optic interface. May be connected to a user via the ODS-236 or to the fiber network port of ODS 241, 251, or 261.

■ **ODS 236**

10Mbps • Fiber Optic Transceivers • Provides a fiber optic interface for Ethernet users.

Powered by Ethernet user hosts.

■ **ODS 238**

10Mbps • Thin Wire Transceivers • Provides connection to thinwire Ethernet segments.

■ **ODS 241**

10Mbps • Optical Multiport Transceivers • Connects up to 16 users in star topology so that any user may be added to or removed from the network without interruption of traffic.

Provides packet and signal regeneration. Preambles are restored to 64 bits and each bit is retimed with a 20MHz clock.

■ **ODS 243**

10Mbps • Optical Multiport Transceivers • Connects up to eight users in star topology so that any user may be added to or removed from the network without interruption of traffic.

Provides packet and signal regeneration, preambles are restored to 64 bits and each bit is retimed with a 20MHz clock.

■ **ODS 251**

Multiport Transceiver • Connects to any Ethernet user via transceiver or fiber optics cable.

Provides packet and signal regeneration. Preambles are restored to 64 bits and each bit is retimed. Supports 16 AUI user ports and fiber optic or AUI network ports.

■ **ODS 261**

Multiport Star • Connects a fiber optic or twisted pair network to any user port on another ODS 261 or 263.

Provides packet and signal regeneration, preambles are restored to 64 bits and each bit is retimed. Has 16 twisted-pair user ports and fiber optic or twisted pair network ports.

■ **ODS 263**

Multiport Star • Connects a fiber optic or twisted pair network to any user port on another ODS 261 or 263.

Provides packet and signal regeneration, preambles are restored to 64 bits and each bit is retimed. Has eight twisted pair user ports and fiber optic and twisted pair network ports.

■ **ODS 264**

Twisted Pair Transceiver • Connects a twisted pair network port to a multiport transceiver.

Provides packet and signal regeneration, preambles are restored to 64 bits and each bit is retimed.

■ **ODS 266**

Twisted Pair Transceiver • Connects a twisted pair network port to a multiport transceiver.

Powered by Ethernet user signals. Provides packet and signal regeneration, preambles are restored to 64 bits and each bit is retimed.

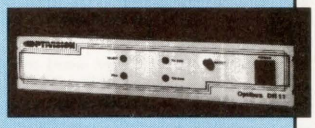
■ **ODS 268**

Thin Wire Gateway • May be used as a gateway between two pair and one pair implementations of Ethernet.

Provides packet and signal regeneration, preambles are restored to 64 bits and each bit is retimed.

Optivision, Inc.

OPTIVISION, INC.



■ **Optibus-DR11**

1.5Mbps • Fiber Optic Link • Connects any two machines that support a DR11-W parallel interface • $6,000

Get to the point with Optivision DR11 Interconnects! Optibus-DR11 is a point-to-point fiber optic solution for those applications requiring any combination of normal, secure, high speed, or long distance communication of data, programs, images, or remote processor/peripheral control. It is fully DEC compatible and transparent to the user in its setup and operation. A proprietary high-speed mode has the capacity to handle sustained throughput at rates in excess of 1.5Mbps at distances up to 2km. Optibus interfaces directly to the DR11 series of parallel I/O boards available for most computer buses. Optivision sells complete interconnect solutions including required cabling and DR11s. Contact us with your requirements.

Plexcom, Inc.

■ **1112/3**

10Mbps • Thinnet Transceiver • Connects to a baseband CSMA/CD network.

■ **1120**

10Mbps • Repeater • Allows connection between two standard Ethernet cable segments, or two thin Ethernet segments, or between standard and thin Ethernet segments.

■ **1125**

10Mbps • Multiport Repeater • Connects a large number of network segments to a baseband CSMA/CD network.

■ **1125**

10Mbps • Fan Out Unit • Connects a group, or cluster of data processing equipment to a baseband CSMA/CD network.

■ **1126**

10Mbps • Fiber Optic Multiport Repeater • Connects a large number of network segments to a baseband CSMA/CD network.

This device may be used to form central nodes in fiber optic networks in a star configuration, or to connect a large number of fiber optic inter-repeater links, thereby extending the full network diameter to 3km.

■ **1150**

10Mbps • Fiber Optic Repeater • Interconnects two segments of a baseband CSMA/CD network.

This device features loopback of data, jabber protection, collision detection, and idle signal modulation.

■ **1160**

10Mbps • Fiber Optic Hub • Interconnects copper segments by forming a central fiber hub for the star point connection inter-repeater links, thereby extending the full network diameter to 3km.

This device supports either six or 12 ports.

■ **1170/1**

10Mbps • Compact Transceiver • Connects to silicon decoders, encoders, and CSMA coontrollers.

■ **1180**

10Mbps • Fiber Optic Transceiver • Connects to DTEs or PCs, supporting two optical fiber ports, one for transmitting and one for receiving within a LAN.

Raycom Systems, Inc.

■ **Bridge + Fiber**

10Mbps • Fiber Optic Bridge • Remote bridge AUI to fiberoptics 850nm/1300nm operation • $7,875+

Part of Raycom's 3700 Series, the Bridge + Fiber connects IEEE 802.3 LANs via a 10Mbps fiber link over distances >10km using standard multi- or single-mode fiber cable.

■ **Bridge + 1.5**

1.544Mbps • Remote Bridge • Remote bridge with RS232, V.35, and RS422 interfaces and AUI • $6,975+

Part of Raycom's 3700 Series, the Bridge+ 1.5 connects geographically separated IEEE 802.3 LANs at speeds up to 1.544Mbps with a forwarding rate of 3,200 frames per second.

■ **Local Bridge+**

10Mbps • Local Bridge • Local Ethernet Bridge • $5,875

Part of Raycom's 3700 Series, the Local Bridge+ connects IEEE 802.3 LANs including Ethernet, Thinnet, and StarLAN with a forwarding rate of over 6,000 frames per second.

Retix

■ **4820**

128Kbps • LAN Bridge • Interconnects Ethernet and Thin Ethernet and bridges StarLAN networks with a StarLAN port option. Supports up to 2K LAN stations • $4,950

Equipped with a single LAN port and either one or two WAN interfaces. Features include self-configuration, forward-if-remote mode, load balancing, end-to-end data integrity, spanning tree protocol, traffic management, and remote network management.

■ **4880**

2.048Mbps • LAN Bridge • Provides Ethernet media access in T1 and M1 networks, supporting up to 2K LAN stations. Equipped with a single LAN port and either one or two WAN interfaces • $10,400

Features include self-configuration, forward-if-remote mode, load balancing, end-to-end data integrity, spanning tree protocol, T1 Day/Night service, traffic management, and remote network management.

Richard Hirschmann of America

■ **Active Star**

Active Star Coupler • Intermixes transmission media and extends the distance between any two DTEs to 4.5km.

A single network may accommodate up to 343 Active Star Couplers. Any card may be intermixed or removed from the chassis without affecting the entire network. Equipped with twin receiver, coaxial, fiber optic, and optical transceiver interface cards.

Siecor Corporation

■ **Active Star System**

10Mbps • Active Concentrator • Connects up to 32 Ethernet devices up to 2km apart to a central hub via fiber optic cable • $1,100/node

The Active Star System consists of an active star concentrator, plug-in dual-port modules, plug-in power supply, and plug-in collision detection module. These features afford expandability and flexibility. When configured as a universal concentrator, the star is able to house both Ethernet and Token Ring dualport modules, thereby enabling both networks to operate in parallel, but sharing common hardware.

■ **EOT-122**

10Mbps • Optical Transceiver • Determines whether or not a collision has occurred by analyzing the incoming signal for evidence that two or more stations are transmitting simultaneously • $800

The EOT-122 is used with Siecor's Passive and Hybrid Star Systems. It provides the collision detection capabilities required by Ethernet.

■ **EOT-200**

10Mbps • Optical Transceiver • Determines whether or not a collision has occurred by analyzing the incoming signal for evidence that two or more stations are transmitting simultaneously • $860

The EOT-200 is used with Siecor's Passive and Hybrid Star Systems when DC-coupling is required. It provides the collision detection capabilitites required by Ethernet.

■ **EOT-322**

10Mbps • Optical Transceiver • Connects Ethernet stations to active concentrator (hub) via fiber optic cable and provides SQE test, jabber, and loopback functions; conforms to IEEE 802.3 FOIRL standards • $660

This model may be used with Siecor's Active Star System or as a fiber optic Inter-Repeater Link (FOIRL) to connect networks up to 2km. Available with SMA or ST-type connectors; compatible with all major multimode fiber sizes.

■ **Hybrid Star System**

10Mbps • Passive Star Coupler • Connects Ethernet devices via fiber optic cable in a star-based transmission system, with enhanced collision detection circuitry at the network hub • $1,000/node

The Hybrid Star System incorporates collision detection capabilities at the network's hub, thereby providing 100% collision detection for large and/or heavily loaded networks while maintaining the inherent reliability of a passive star-based network.

■ **IRL-222H**

10Mbps • Fiber Optic Transceiver • Connects remote Ethernet segments up to 4.5km via fiber optic cable and provides information on

the status of transmit, receive, collision, and power signals • $860
The IRL-222H is a high power point-to-point link device which serves networks up to 4.5km. Available with SMA or ST-type connectors and is compatible with all major multimode fiber sizes.

■ **Passive Star System**
10Mbps • Passive Star Coupler • Passive (requires no power) star-based fiber optic Ethernet transmission system that connects Ethernet devices via fiber optic cable • $1,000/node
The use of a passive star coupler yields a highly reliable system where a node failure or break in a cable affects only that node and not the entire system. Its use is recommended for networks where the distance between nodes is less than 500 meters, or in larger networks where loading is relatively light.

■ **RL3000**
10Mbps • Coax Transceiver • Provides access to Ethernet/IEEE 802.3 networks via 10Base5 (Thick) or 10Base2 (Thin) coaxial cable • $249
The RL3000 is fully compatible with IEEE 802.3 specifications and features a switchable SQE test and a wide array of LED indicators for monitoring network activity.

■ **RL6000L**
10Mbps • Repeater • Provides automatic and manual segmentation functions for the isolation of faulty network segments • $895
The RL6000L is one of the most compact and versatile Ethernet local repeaters available, with extensive diagnostic indicators, the ability to operate either with or without SQE tests, and is less than half the size of other repeaters.

■ **RL6000Li**
10Mbps • Repeater • Provides connection of two Ethernet segments via Ethernet transceiver cables, each up to 50 meters in length • $1,295
The RL6000Li provides the features of Siecor's RL6000L repeater and operates in most electrical environments worldwide, without modification.

SynOptics Communications

■ **2500**
10Mbps • Workgroup Concentrator • Active Star CSMA/CD (Ethernet) for unshielded twisted pair, shielded twisted pair, and fiber optic cabling • $1,295
Provides eight connections for a 10Mbps Ethernet in a star topology over unshielded twisted pair wiring.

■ **2510**
10Mbps • Workgroup Concentrator • Active star CSMA/CD (Ethernet) for unshielded twisted pair, shielded twisted pair, and fiber optic cabling • $1,495
Provides eight connections for a 10Mbps Ethernet in a star topology over unshielded twisted pair wiring. Retiming feature is included for large hierarchical star networks.

■ **2530**
10Mbps • Workgroup Concentrator • Active star CSMA/CD (Ethernet) for unshielded twisted pair, shielded twisted pair, and fiber optic cabling • $1,495
Provides eight connections for a 10Mbps Ethernet in a star topology over unshielded twisted pair wiring. Built-in AUI port provides direct connection to coaxial Ethernet.

■ **2530**
10Mbps • Concentrator • Connects coaxial Ethernet and telephone wire LattisNet LANs • $2,995
Features eight unshielded twisted pair down-ports that allow connections to host devices, computer terminals or other LattisNet workgroup concentrators and network interface cards via standard RJ-45 modular receptacles.

■ **2600**
10Mbps • Thinnet Adapter • Merges Ethernet LANs running on telephone wire with those using existing thin coaxial cable • $725
Daisy chains small clusters of workstations with thin coaxial cable in areas where unshielded twisted pair wire has not been previously installed, or is limited.

■ **502A**
10Mbps • Shld Twisted Pair Transceiver • Interfaces between the Ethernet network interface card and the cabling media through which the data signals are transmitted • $155
The 505 is equipped with shielded twisted pair cabling media.

■ **504-ST**
10Mbps • Fiber Optic Transceiver • $565
Part of SynOptics' LattisNet system, a physical layer implementation of the Ethernet LAN. Basic system includes concentrators, transceivers, and cables. This model features an active star topology and reaches distances over 4km. Used in conjunction with SynOptics' fiber optic host module (404-ST).

■ **505**
10Mbps • Unshld Twisted Pair Transceiver • Interfaces between the Ethernet network interface card and the cabling media through which the data signals are transmitted • $155
The 505 is equipped with unshielded twisted pair cabling media.

■ **System 1000**
10Mbps • Concentrators • Active Star CSMA/CD (Ethernet) for unshielded twisted pair, shielded twisted pair, and fiber optic cabling • $300/port
Provides Ethernet for structured cabling systems using unshielded twisted pair wire, shielded twisted pair wire, and fiber optic cables, configured in an active hierarchial star.

■ **System 3000**
10Mbps • Concentrators • Active Star CSMA/CD (Ethernet) for unshielded twisted pair, shielded twisted pair, and fiber optic cabling • $350/port
Built upon SynOptics' Network Utility Architecture, System 3000 provides a modular platform for physical layer connectivity (Ethernet for structured cabling systems), internetworking, and integrated network management.

Talaris Systems Inc.

■ **T-LAP-Ethernet**
Controller • Controls network traffic to and from Talaris' Printstations that reside on the network. Provides a direct Ethernet connection to the PCS board • $1,650
Provides a complete solution for interfacing the Printstations to Ethernet, including the required hardware, cables, and host software. Supports both Thickwire and Thinwire.

TCL, Inc.

■ **2010K**
10Mbps • Transceiver • $235

Telematics

■ **Transaction Accelerator**
Transaction Accelerator • Supports up to 30% more users, reduces network costs by decreasing traffic up to 80% and provides remote terminal users with the same fast response as local terminals • $45,000
Consists of an Ethernet FEP for network processing and management and remote VT cluster controllers to provide remote users with local terminal handling.

Versitron

■ **Tempest**
Fiber Optic Ethernet • Allows the mixing of bus and star topologies.

Vitalink Communications Corporation

■ **TransLAN 320**
Bridge • Protocol transparent remote bridge that extends multiple Ethernet or IEEE 802.3 LANs to create a high-performance, integrated WAN • $9,750
Features include full mesh network configurations, 56Kbps dial support, and the capability to assign class-of-service priorities to types of traffic. Supports one or two remote links at speeds of up to 64Kbps.

■ **TransLAN 350**
Bridge • Protocol transparent remote bridge that extends multiple Ethernet or IEEE 802.3 LANs to create a high-performance, integrated wide area network based on the 802.3 standard.
Features include full mesh network configurations, 56Kbps dial support, and the capability to assign class-of-service priorities to types of traffic. Also supports two T1 links or up to eight lower-speed links with a forwarding rate of 5000 frames per second.

■ **TransLAN III**
Bridge • Protocol transparent remote bridge that extends multiple Ethernet or IEEE 802.3 LANs to create a high-performance, integrated wide area network based on the 802.3 standard.
Features include full mesh network configurations, 56Kbps dial support, and the capability to assign class-of-service priorities to types of traffic. Also supports two T1 links or up to eight lower-speed links with a forwarding rate of 2000 frames per second.

■ **TransRING 550**
Bridge • Protocol transparent remote bridge that extends multiple Ethernet or IEEE 802.3 LANs to create a high-performance, integrated WAN.
Features include full mesh network configurations, 56Kbps dial support, and the capability to assign class-of-service priorities to types of traffic. Also supports two T1 links or up to eight lower-speed links.

Xyplex, Inc.

■ **MX-REPTR-E1**
10Mbps • Ethernet Repeater • Provides a connection between Xyplex's MAXserver 5000 and an Ethernet LAN • $1,495
Multiple MX-REPTR-E1 units may be used to create an Ethernet multiport repeater, linking up to 16 separate networks. Provides redundant Ethernet connection.

Networking Interfaces

3Com Corporation

■ **CB/1**
IEEE 802.3 Interface(s) Supported
The CB/1 is a broadband-to-broadband (5Mbps-5Mbps) interface that provides protocol-transparent routing up to 15 miles. It features a multiple 68000 processor architecture, intelligent broadband controllers, and a main processor for packet processing.

■ **IB/1**
IEEE 802.3 Interface(s) Supported
The IB/1 is a broadband-to-baseband (5Mbps-10Mbps) interface that provides protocol-transparent routing up to 10 miles. It features a multiple 68020 processor architecture, an intelligent broadband controller, an intelligent Ethernet controller, and a main processor for packet processing.

■ **IB/2**
IEEE 802.3 Interface(s) Supported
The IB/2 is a protocol transparent Ethernet-to-Ethernet interface that utilizes cables or fiber-optic links to create a LAN beyond 500 meters. It features a multiple 68020 processor architecture, two Ethernet controllers, and a main processor for packet processing.

Able Computer

■ **AT300**
2 Line(s) Supported • RS422 Interface(s) Supported • 1Mbps • $5,200
The AT300 (Resource Manager) provides the communication path into and out of the EASYsay network and the Resource Manger interface provides dedicated network management functions via a dedicated system to be controlled and configured by the system manager, to record assignments and to monitor module status.

■ **LS320**
4 Line(s) Supported • RS422 Interface(s) Supported • 1Mbps • $4,000
The LS320 (Server Link) attaches terminal servers and host servers to each of four high-speed twisted pair links.

■ **MB300**
RS422 Interface(s) Supported • 1Mbps • $850
The MB300 connects up to eight of Able's EASTway server link segments in star topology. It may be daisy chained to allow EASYway components to be placed at distances up to 10 miles over twisted pair wire.

■ **NC3600**
20Mbps • $12,500+
The NC3600 combines centralized network management, security, and access control diagnostics. Supports up to 3600 host and terminal connections and up to 32 routing

and server links in eight rackmountable modules.

■ **NC480**
1Mbps • $5,000
The NC480 (Network Control System) combines centralized network management, security, and access control diagnostics. Supports up to 480 host and terminal connections in a standalone desktop model.

■ **RG300 RemoteGate**
X.21/V.35 Interface(s) Supported • 80Kbps • $5,000
Interconnects one or more LANs over WANs including leased lines, satellites, packet data networks, and microwave links.

Advanced Computer Communications (ACC)

■ **ACP 6640**
23 Line(s) Supported • 19.2Kbps
The ACP 6640 uses the Digital Multiplex Interface (DMI) protocol. Each channel appears as an auto-answer/dial-out modem to the host and as a locally attached terminal to the user.

C & C Technology, Inc.

■ **Q-ARC-01**
1 Line(s) Supported • 2.5Mbps
Intelligent slave that interfaces the SMC 9026 Arcnet controller to the Q-bus. Supports distributed priority with interrupt level selection from levels BR4 to BR6.

■ **U-ARC-01**
1 Line(s) Supported • 2.5Mbps
Intelligent slave that interfaces the SMC 9026 Arcnet controller to the UNIBUS. Supports distributed priority with interrupt level selection from levels BR4 to BR6.

cisco Systems, Inc.

■ **SCI**
4 Line(s) Supported • 4Mbps • $7,100
The SCI board performs full OSI Level 3 internetwork routing and supports MAC-layer bridging. Also available to support four low-speed ports (64Kbps) at $3,800 and two high- and two low-speed ports at $6,200.

Design Analysis Associates

■ **ALID II**
The ALID II is a proprietary bus allowing multiple general purpose computers to equally share data that is mapped into the memory address range of the computers so it appears as physical memory to the processor.

Digital Link Corporation

■ **T1-ISO DL551A**
1 Line(s) Supported • RJ48C Interface(s) Supported • 1.544Mbps • $1,295
Connects PBXs, T1 multiplexers, T1 voice compressors, DACS, channel banks and FEPs. Protects networks and provides DTE loopback, industry standard remote loopback, local or line powering, and a built-in self test capability.

■ **T1-ISO DL551C**
1 Line(s) Supported • RJ48C Interface(s) Supported • 1.544Mbps • $2,095
Connects PBXs, T1 multiplexers, T1 voice compressors, DACS, channel banks and FEPs. Protects networks and provides DTE loopback, industry standard loopback, local or line powering, and self test.

■ **T1-ISO DL551E**
1 Line(s) Supported • RJ48C Interface(s) Supported • 1.544Mbps • $795
Connects D1-D4 DTEs to PBXs, T1 multiplexers, T1 voice compressors, DACS, channel banks and FEPs to ESF lines. Protects networks and provides DTE loopback, industry standard remote loopback, local or line powering, and a built-in self test capability.

■ **T1-ISO DL551V**
1 Line(s) Supported • RJ48C Interface(s) Supported • 1.544Mbps • $2,995
Takes raw data from LAN bridges, routers, or gateways, CPUs, or CAD/CAM equipment and converts it to a format that allows direct connectivity to a T1 network.

■ **T1-ISO DL551X**
1 Line(s) Supported • RJ48C Interface(s) Supported • 1.544Mbps • $2,880
Connects PBXs, T1 multiplexers, T1 voice compressors, DACS, channel banks and FEPs. Protects networks and provides DTE loopback, industry standard remote loopback, local or line powering, and a built-in self test capability. Includes eight character display and a host port for network management.

Forest Computer

■ **NS3000 • $37,000**
If the NS3000 and DECnet share the same physical 802.3 LAN, it requires only a single LAN tap to bridge the two networking products. If there are separate dedicated LANs, the NS3000 acts as a gateway between the two, forming a single, comprehensive LAN.

Intel Corporation

■ **FASTPATH 9770**
128 Line(s) Supported • $25,000+
Connects an IBM System/370 directly to a DEC VAX or MicroVAX II system. Utilizes Flexlink software that provides bidirectional connectivity capabilities, including high-speed file transfer, protocol conversion, terminal emulation, and remote printing, logon, task activation and file editing.

Interlink Computer Sciences, Inc.

■ **3711S (VM)**
8 Line(s) Supported
The 3711S combines proprietary software and a network controller allowing IBM and IBM compatible mainframes to operate in a DECnet network.

■ **3732 Model 450**
Offers multichannel support and support of the TCP/IP protocol simultaneously with DECnet. Additional features include transfer rates greater than 1Mbps and 256 simultaneous sessions.

KMW Systems Corporation

■ **8900A**
Connects a DEC UNIBUS or Q-bus system to an IBM or plug compatible host with data rates of up to 1.2Mbps. The 8010 driver/receiver module must be used in conjunction with the 8900A.

■ **8911A**
Connects a DEC UNIBUS or Q-bus system to an IBM or plug compatible host with data rates of up to 1.2Mbps. The 8911 emulates a standard control unit in the host and is fully programmable.

McComb Research

■ **ShareNet-5100**
256 Line(s) Supported • RS232 Interface(s) Supported • 115,200bps • $199

■ **ShareNet-5110**
256 Line(s) Supported • RS232 Interface(s) Supported • 115,200bps • $199

■ **ShareNet-5120**
256 Line(s) Supported • RS232 Interface(s) Supported • 115,200bps • $249
This ShareNet Series features autobaud parallel and serial port modules with menu driven and "AT" modem command sets, compatible interfaces, and password security. Link PCs, minicomputers, printers, terminals and other devices via non-polarized twisted-pair cable up to 4,000 feet.

■ **ShareNet-5122**
256 Line(s) Supported • RS232 Interface(s) Supported • 115,200bps • $495
Same as ShareNet-5120 including a 256KB RAM buffer which is expandable up to 2MB to support desktop publishing.

Plexcom, Inc.

■ **Plexring 8031**
IEEE 802.3 Interface(s) Supported
Connects IBM systems to DEC Q-bus systems with interface cards and a multistation wiring center.

Simpact Associates, Inc.

■ **MAP6000**
Provides a high-speed serial link between DEC hosts and any Interim Network Interface Unit (NIU) which conforms to the HDLC LAPB portion of the MAP 2.1 specification and which provides an upper layer interface, such as Session or CASE. Supports UNIBUS, Q-bus and BIbus architectures.

■ **MAP6400**
10Mbps
Provides a high-speed serial link between UNIBUS DEC hosts and MAP broadband networks. Includes a resident seven layer MAP 2.1 token bus interface and Simpact's hardware and software that offloads communication tasks from the host.

Teltone Corporation

■ **DCS-3SE**
16 Line(s) Supported • RS232 Interface(s) Supported • 19.2Kbps
Transmits data simultaneously with voice on standard telephone lines. Data terminals may be connected and moved wherever an available phone jack exists. Features remote digital loopback and an internal self-test.

■ **TelLAN M-8201**
1 Line(s) Supported • RS232 Interface(s) Supported • 19.2Kbps
Local data network with plug-in components that transfer data simultaneously with voice on the existing telephone wiring. DTEs are interconnected and communicate through a 1Mbps data link.

■ **TelLAN M-8208**
8 Line(s) Supported • RS232 Interface(s) Supported • 19.2Kbps
Local data network with plug-in components that transfer data simultaneously with voice on the existing telephone wiring. DTEs are interconnected and communicate through a 1Mbps data link.

■ **TelLAN M-8216**
16 Line(s) Supported • RS232 Interface(s) Supported • 19.2Kbps
Local data network with plug-in components that transfer data simultaneously with voice on the existing telephone wiring. DTEs are interconnected and communicate through a 1Mbps data link.

Switching Devices

3Com Corporation

■ **LS/1**
64 Port(s) Supported • 19.2Kbps • LAN Switch • 802.3 Interface(s) Supported

Able Computer

■ **NC3600**
3600 Port(s) Supported • 38.4Kbps • Network Switch • $12,500+
May be configured for automatic load balancing, multisessions, and port contention.

Alantec

■ **MLS**
6-16 Port(s) Supported • MultiLAN Switch • $9,800
The MLS is capable of fully interconnecting as many as 16 local area networks while providing advanced filtering and network management features.

Applied Innovation, Inc.

■ **AISwitch Series 90**
64 Port(s) Supported • 19.2Kbps • Data PBX Switch • RS232/422 Interface(s) Supported • $105/port
The AISwitch Series 90 supports up to 64 ports for ASCII host and device connections, and allows all 64 asynchronous ports to run at simultaneous speeds up to 19.2Kbps. The software-intensive design yields a small unit with few components, which assures reliability and easy maintenance. Options include an X.25 gateway card to synchronous packet switch networks.

■ **AISwitch Series180**
256 Port(s) Supported • 19.2Kbps • Data PBX Switch • RS232/422 Interface(s) Supported • $105/port
The AISwitch Series 180 supports up to 256 ports for ASCII host and device connections, and allows all 256 asynchronous ports to run at simultaneous speeds up to 19.2Kbps. The software-intensive design yields a small unit with few components, which assures reliability and easy maintenance. Options include (1) secure dialback, (2) full internal redundancy, and (3) an X.25 gateway card to synchronous packet switch networks.

Aviv Corporation

■ **DPS 300**
2 Port(s) Supported • Pertec Interface(s) Supported • $2,100
The Dual Port System (DPS 300) is an

electronic switch that allows two computers to share any tape drive with Pertec formatted I/O.

■ **DPS 805**
2 Port(s) Supported • Tape Switch • STK Interface(s) Supported • $2,400
The Dual Port System (DPS 805) is an electronic switch that allows two computers to share any tape drive with STK formatted I/O.

■ **MPS 300**
6 Port(s) Supported • Tape Switch • Pertec Interface(s) Supported • $6,250
The MultiPort System (MPS 300) is an electronic switch that allows six computers to share any tape drive with Pertec formatted I/O.

■ **MPS 805**
6 Port(s) Supported • Tape Switch • STK Interface(s) Supported • $6,700
The MultiPort System (MPS 805) system is an electronic switch that allows six computers to share any tape drive with STK formatted I/O.

■ **QPS 300**
4 Port(s) Supported • Tape Switch • Pertec Interface(s) Supported • $3,900
The Quad Port System (QPS 300) is an electronic switch that allows four computers to share any tape drive with Pertec formatted I/O.

■ **QPS 805**
4 Port(s) Supported • Tape Switch • STK Interface(s) Supported • $4,200
The Quad Port System (QPS 805) is an electronic switch that allows four computers to share any tape drive with STK formatted I/O.

Datacom Technologies, Inc.

■ **MetroSwitch 412**
4 Port(s) Supported • 19.2Kbps • Printer Switch • Serial/Parallel Interface(s) Supported • $269
Allows up to 16 users to share one printer. Features automatic input port selection, automatic conversion of serial input to parallel output, and selectable options for timeout, auto-feed serial speed and flow control.

■ **MetroSwitch 413**
4 Port(s) Supported • 19.2Kbps • Printer Switch • Serial/Parallel Interface(s) Supported • $324
Allows up to 16 users to share one printer. Features automatic input port selection, automatic conversion of serial input to parallel output, and selectable options for timeout, auto-feed serial speed and flow control.

■ **MetroSwitch 430**
4 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $595

■ **MetroSwitch 431**
4 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $745
The MetroSwitch 430 and 431 allow up to 20 users to share two printers simultaneously. Feature a 256KB buffer size, spooling capabilities, and selectable options to send different documents between the two printers.

■ **MetroSwitch 433**
4 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $249
Allows up to 20 users to share two printers simultaneously. Features a 256KB buffer size, spooling capabilities, and selectable options to send different documents between the two printers.

Digital Consultants

■ **ITM**
4 Port(s) Supported • Tape Switch • Pertec Interface(s) Supported • $1,950+
The ITM (Intelligent Tape Manager) is a general purpose digital switch allowing two to four CPUs to share one to four Pertec interfaced tape drives. Allows users to integrate CPUs and tape vendors.

Gold Key Electronics, Inc.

■ **LN2-HP1**
3 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $549
The Switchmate Jr. LN2-HP1 provides automatic shared access for two systems to one HP LaserJet printer and emulates DEC's LN03 laser printer.

■ **LN3-HP1**
4 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $749
The LN3-HP1 SWITCHmate provides automatic shared access for up to three systems to one HP LaserJet printer and emulates DEC's LN03 laser printer.

■ **SW2-2+2**
4 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $749
The SWITCHmate 2+2 connects two sharing systems to two printers and allows for automatic printer sharing.

■ **SW2-HP1**
3 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $549
The Switchmate Jr. SW2-HP1 provides automatic shared access for two systems to one HP LaserJet printer and emulates DEC's LA100.

■ **SW2-ID1**
3 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $549
The SWITCHmate Jr. SW2-ID1 is a printer switching device that allows two systems to share one DEC printer automatically.

■ **SW3-HP1**
4 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $749
The SWITCHmate SW3-HP1 provides automatic shared access for up to three systems to one HP LaserJet printer and emulates DEC's LA100.

■ **SW3-ID1**
4 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $749
The SWITCHmate SW3-ID1 is a printer switching device that allows three systems to share one DEC printer automatically.

■ **SW6-HP2**
8 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $1,295
The SWITCHmate SW6-HP2 provides automatic shared access for up to six systems to one or two HP LaserJets.

■ **SW6-ID2**
8 Port(s) Supported • 19.2Kbps • Printer Switch • RS232 Interface(s) Supported • $1,295
The SWITCHmate SW6-ID2 is a printer switching device that allows six systems to share two DEC printers automatically.

Micom Communications Corporation

■ **Instanet6000-20**
250 Port(s) Supported • 72Kbps • TDM Switch • Serial/V.35/T1 Interface(s) Supported • $5,000+
Provides switching functions for up to 250 channels and allows direct access to all resources on the network.

■ **Instanet6000-40**
2036 Port(s) Supported • 72Kbps • TDM Switch • Serial/V.35/T1 Interface(s) Supported • $9,000+
Provides switching functions for up to 2036 channels and allows direct access to all resources on the network.

Omicron Telesystems, Inc.

■ **PFS**
RS232 Interface(s) Supported • $495+
The PFS (Programmable Fallback Switch) is designed for A/B switching applications and may be operated in automatic fallback mode, programmed priority mode, and contention mode.

Racal-Milgo

■ **Omnimux 8000**
576 Port(s) Supported • 19.2Kbps • T1 Multiplexer Switch • Serial/V.35 Interface(s) Supported • $30,000
Designed to maximize the economic payback inherent in integrated voice, data, and digitized video communications.

■ **Omnimux 9000**
1584 Port(s) Supported • 1.536Mbps • Network Switch • Serial/V.35 Interface(s) Supported • $25,000+
Sophisticated networking T1 multiplexer supporting meshed voice/data/video networks. SUN-based network management system that features a graphics-based user interface and automatic or user-defined control of T-1 netwroks. Supplies management reports.

■ **Omnimux DCS**
60 Port(s) Supported • 19.2Kbps • DACS Switch • Serial/V.35 Interface(s) Supported
Serves as either a simple digital access and cross-connect switch or a full networking T-1 mux supporting applications including digital hubbing, bypass, groom and fill, drop and insert, and direct PBX interface.

Rose Electronics

■ **CareTaker**
4-8 Port(s) Supported • Scanning Switch • Serial/Parallel Interface(s) Supported • $195+
Shares one peripheral with many hosts but does not support buffering.

■ **CareTaker Plus**
4-8 Port(s) Supported • 19.2Kbps • Buffered Switch • Serial/Parallel Interface(s) Supported • $395+
Shares one peripheral with many hosts. Accepts data simultaneously on all ports and will connect each port automatically on a first-come first-serve basis. Supports buffering.

■ **MasterSwitch Family**
2-16 Port(s) Supported • 115.2Kbps • Network Switch • Serial/Parallel Interface(s) Supported • $295+
Interconnects computers and peripherals through serial and parallel interfaces. Features automated operation with commands or interactive menus. Includes modem support.

■ **Porter**
4-8 Port(s) Supported • 19.2Kbps • Code Switch • S/P Interface(s) Supported • $395+
Connects one computer to several devices and supports buffering.

Terminal Servers

Able Computer

■ **CS128**
128 Port(s) Supported • 38.4Kbps • O/E/N Parity • $3,750+
The CS128 is a communication system that connects up to 128 users to a host system up to 2000 feet away using twisted pair cable. Full modem support is available on all lines and 38.4Kbps baud rates are supported regardless of operating system restrictions.

■ **DS008**
8 Port(s) Supported • 38.4Kbps • O/E/N Parity • $2,000
The DS008 is a distributed terminal server designed to locate terminal servers with PCs, terminals, printers and computers and to extend Ethernet/LAT access or direct DEC host access to the user.

■ **DS016**
16 Port(s) Supported • 38.4Kbps • O/E/N Parity • $2,800
The DS016 is a distributed terminal server designed to locate terminal servers with PCs, terminals, printers and computers and to extend Ethernet/LAT access or direct DEC host access to the user.

Adac Corporation

■ **1750**
2 Port(s) Supported • 19.2Kbps • O/E/N Parity
Provides dual asynchronous serial line communication with on-board PROM capability. Plugs directly into the Q-bus backplane.

Black Box Corporation

■ **NTS100**
8 Port(s) Supported • 38.4Kbps • $2,700

cisco Systems, Inc.

■ **ASM**
Connects asynchronous devices such as terminals, printers, modems, and microcomputers to any LAN or WAN that uses TCP/IP or X.25.

■ **STS-10**
10 Port(s) Supported • 38.4Kbps • O/E/N Parity • $2,995
Provides simultaneous Ethernet network access and support for terminals and other devices and each RS232 interface operates as a DCE or DTE device with a variety of dial-in or dial-out modems.

Communication Machinery Corporation (CMC)

■ **TransServer**
4-10* Port(s) Supported
Interfaces terminal groups to an Ethernet LAN and may be configured to operate as a DCE or a DTE. Features multiple connection switching, user configurable options, on-line help, and power-up diagnostics.

Computer Products, Inc.

■ **GT360**
$265
Parallel interface for general purpose input and output TTL compatible data lines. Features a four level interrupt structure.

■ **GT362**
16 Port(s) Supported • $390
Parallel interface that features four handshake signals per port, 16 programmable vectors, a four level interrupt structure, and data ports that support byte write accesses.

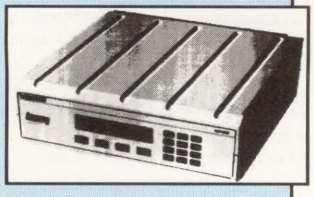
■ **GT370**
16 Port(s) Supported • $650
DMA interface equipped with ports that contain various handshaking and control signals to enable one GT370 board to transceive data with another system or device.

Datability Software Systems, Inc.

■ **VCP-1000**
8 Port(s) Supported
Part of the VISTA Series; provides four expansion slots that replace the operation of 16 DECserver 200s.

Datability Software Systems, Inc.

VISTA



■ **VCP-1000**
128 Port(s) Supported • 38.4Kbps • O/E/N Parity • $3,499+
VISTA (VCP-1000) is a 100% LAT compatible terminal server that supports from one to 128 users in a single 5.25" high chassis at per port costs that are among the lowest in the industry. A slide-in Network Interface Card (NIC) contains all the hardware and software necessary to implement a particular industry standard network strategy. The LAT compatible NIC is 100% compatible with the DECserver 200, including full support of NCP and TSM commands. Future NIC cards include TCP/IP, concurrent LAT/TCP, and OSI protocols. VISTA provides four expansion slots for VISTA line cards. Current line cards include 8-port RS232, 32-port RS423, eight on-board 2400B modems, and X.25.

■ **VCP/LC-RS232-8**
8 Port(s) Supported • 38.4Kbps
Part of the VISTA Series; provides four expansion slots that replace the operation of 16 DECserver 200s. Connects terminals, PCs, printers and modems to the VCP-1000.

■ **VCP/LC-RS423-32**
32 Port(s) Supported • 38.4Kbps
Part of the VISTA Series; provides four expansion slots that replace the operation of 16 DECserver 200s. Connects terminals, PCs, printers and modems to the VCP-1000.

■ **VCP/MIC-LAT**
32 Port(s) Supported
Part of the VISTA Series; features an Intel 80185 processor and an Intel 2586 network coprocessor; it is a fully LAT compatible, transparent interface to a DEC Ethernet network.

Emulex

■ **PERFORMANCE 4000**
32 Port(s) Supported • 38.4Kbps • O/E/N Parity • $3,890+
The Performance 4000 is fully compatible with DEC's LAT and plugs directly into the Ethernet Network without special hardware or software. It offers twice the performance and four times the line capacity for about half the cost per line as the DECserver 200.

Encore Computer Corporation

■ **ANNEX II**
16 Port(s) Supported • 38.4Kbps

■ **ANNEX II**
32 Port(s) Supported • 38.4Kbps
The ANNEX II connects peripherals to CPUs supporting TCP/IP and Ethernet and features a watchdog timer and security system.

GEN/COMP, Inc.

■ **2031**
9600bps • O/E/N Parity • $525
The 2031 emulates the DEC DL11A and features switch selectable device address, interrupt vector, data format, and baud rates to 9600bps.

Interlan Inc.

■ **INTS/MicroVMS**
32 Port(s) Supported • $3,325
Multiplexes 32 devices onto an Ethernet LAN. Combines the power of four asynchronous controllers on one intelligent board, and features an intelligent protocol processor architecture that provides a highperformance connection to a MicroVAX host.

■ **INTS32/VMS**
32 Port(s) Supported • $3,850
Multiplexes 32 devices onto an Ethernet LAN. Combines the power of four asynchronous controllers on one intelligent board, and features an intelligent protocol processor architecture that provides a high-performance connection to a VAX/VMS host.

■ **NTS100**
8 Port(s) Supported • 38.4Kbps • O/E/N Parity • $2,750
Uses virtual circuits that handle communications among a large group of heterogeneous RS232 devices including terminals, printers, plotters, and modems. Features a multilevel password system and is available with a TCP/IP software featurepack at $2,900.

■ **NTS200 LAT/TCP**
8 Port(s) Supported • $2,750
Supports up to 64 virtual circuits to allow multiple session support to DECnet or TCP/IP based hosts. Software cartridges that download both LAT and TCP/IP operating software across the network are available at $3,245.

MDB Systems, Inc.

■ **MDB-MDL11**
19.2Kbps • O/E/N Parity • $868
Incorporates all features of DECs DL11-A, -B, -C, -D, and DL11-E. Also features RS422 circuitry and a Printer Busy/Buffer Ready Monitor Circuit. LEDs indicate Transmit/Recieve Data and Printer Busy. Baud rate may be set by edge mounted Piano Switch without power down of system to remove board. FCC cable cabinet available.

■ **MLSI-DLV1-ED**
19.2Kbps • O/E/N Parity • $350
Compatible to DEC DLV11-E (DLVJ1). Features LEDs to indicate transmit and receive activity and all modem signals. FCC cable cabinet kit available.

■ **MLSI-DLV11-F**
19.2Kbps • O/E/N Parity • $350
Module has Printer Busy/Buffer Ready Monitor Circuit. LEDs indicate Transmit/Receive Data and Printer Busy. Baud rate may be set by edge mounted Piano Switch without power down of system to remove board. FCC cable cabinet available.

■ **MUX-T/R-32**
32 Port(s) Supported • 38.4Kbps • $6,495
One quad size microprocessor board installs in Q-bus or UNIBUS backplane. Terminal server units connect to CPU board via RS422 signals. Includes adjustable input silo timer.

Sigma Information Systems

■ **SCD-DLV11E**
1 Port(s) Supported • 19.2Kbps • O/E/N Parity • $353
Provides switch selectable device address and vector interrupt, word format, and baud rates.

■ **SCD-DLV11J**
4 Port(s) Supported • 38.4Kbps • O/E/N Parity • $319
Provides switch selectable device address and vector interrupt, word format, and baud rates. Supports multiple data protocols.

■ **SCD-DLV11J/8S**
8 Port(s) Supported • 19.2Kbps • O/E/N Parity • $657
Provides switch selectable device address and vector interrupt, word format, and baud rates.

Simpact Associates, Inc.

■ **EXC 1612**
12 Port(s) Supported
Expands the number of communication channels of Simpact's intelligent communication processors (ICP 1600 or 1622).

Systems Concepts, Inc.

■ **RX-30**
38.4Kbps
The RX-30 allows remote terminals to appear to be directly connected to the host CPU. Options include connections to an Ethernet communications network as well as the TM-30 card which incorporates a group of 300/1200/2400bps baud modems into the RX-30.

■ **TX-30**
38.4Kbps
The TX-30 allows remote terminals to appear to be directly connected to the host CPU, through an Ethernet network. Options include the TM-30 card which incorporates a group of 300/1200/2400bps baud modems into the TX-30.

Xyplex, Inc.

■ **MX-ASYNC-J8**
8 Port(s) Supported • 38.4Kbps
Designed for Xyplex's MAX5000 communication server and is compatible with XYPLEX System Software version 2.1E3 or later. It connects asynchronous terminals, personal computers, printers and modems to the MAX5000 and network users may access any device within the local and wide network geographies.

X.25 PAD Processors

Case/Datatel

■ **PSX8500**
4-64 Port(s) Supported
All activity is monitored and suspect conditions are alarmed. The operator can select from an array of diagnostic routines.

Micom Communications Corporation

■ **MB2**
16 Device(s) Supported • Async Transmission Type • 1 Port(s) Supported • $1,840
Allows asynchronous devices to be connected to X.25 networks. Offers local switching to off-load the network and supports local or remote network management.

■ **MB3**
22 Device(s) Supported • Async Transmission Type • 1/2 Port(s) Supported • $2,650
Allows asynchronous devices to be connected to X.25 networks. Supports network security, offers local switching to off-load the network, and supports local or remote network management.

Microtronix Systems, Ltd.

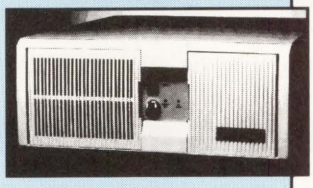
■ **CSI-X.25**
Async Transmission Type
Converts asynchronous data from terminal equipment to the CCITT X.25 synchronous protocol. Interfaces into the public PSDN or private X.25 network at a rate of 70 packets per second. X.25 switching may be performed on the two links.

■ **CSI-X.25 Switch**
Async Transmission Type • 6-18 Port(s) Supported
Supports character or block mode terminals and features XON/XOFF or CTS/RTS signal flow control, autoband and autoparity detection, and modem control support.

■ **KXT-X.25**
Async Transmission Type
Allows any Q-bus system to connect directly to a public or private packet switched network.

N.E.T. ComDesign Data Communications Group

NETWORK EQUIPMENT TECHNOLOGIES™



■ **PacketPlus/50**
16 Device(s) Supported • X.25 Transmission Type • 16 Port(s) Supported
N.E.T.'s PacketPlus/50 is a high-performance X.25 packet switch designed for wide area networks. Based on worldwide CCITT X.25 standards, PacketPlus/50 supports a variety of applications including private backbone network, and it also provides concentrated access to VAX/PSI hosts, Packet Data Networks, and IDNX networks. A single revolutionary architecture accommodates heavy-traffic sites as reliably and cost-effectively as low-traffic locations and allows modular growth at both the node and network level. PacketView, an integral real-time network manager, facilitates rapid network deployment, modification, expansion and problem solving functions, making the PacketPlus/50 easy to use even by those not technically inclined.

■ **TX-700**
32 Device(s) Supported • Async Transmission Type • 1 Port(s) Supported • $2,145
N.E.T.'s TX-700 concentrates asynchronous data traffic and converts it to X.25 for single connection to X.25 host interfaces and public or private X.25 Packet Data Networks.

Simpact Associates, Inc.

■ **CPI 2000**

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DISK STORAGE

DISK CONTROLLERS

Model	# of Supported Drives	Data Buffer Size (Bytes)	Storage Capacity (Bytes)	Bad Block Replacement	On-Board Formatting	Device Interface	Overlapping Seeks	On-board Diagnostics	Host Interface	Data Transfer Rate (bps)	Access Time (ms)	MSCP Emulation	Price
Andromeda Systems, Inc. 818 709-7600													
ESDC RX50/33	7		1M	Y	Y	ESDI		Y	Q-bus	4M		Y	
RDC11	4			Y		ST506			Q-bus	276K		Y	
SDC11	1			Y		ST506			Q-bus	276K		N	
SMDC	2		1M		Y	SMD		Y	Q-bus	4M		Y	
UDC11	4			Y		ST506			Q-bus	276K		Y	
UDC11X	4			Y		ST506			Q-bus	276K		Y	
WDC11	4			Y		ST506			Q-bus	276K		N	
Aviv Corporation 617 933-1165													
DFC 804	8			Y		ESDI	Y	Y	UNIBUS	3M	2	Y	$2,000
DFC 817	8			Y		SMD	Y	Y	UNIBUS	3M	2	Y	$2,300
DFC 904	8	.5-1M		Y	Y	ESDI	Y	Y	Q-bus	3M	2	Y	$1,650
DFC 917	4	1M		Y	Y	SMD	Y	Y	Q-bus	3M	2	Y	$1,650
CMD Technology, Inc. 714 549-4422													
CDU620/100	7	64K	100M	Y	Y	SCSI	Y	Y	UNIBUS	2M	25	Y	$3,695
CDU620/140	7	64K	140M	Y	Y	SCSI	Y	Y	UNIBUS	1.5M	20	Y	
CDU620/170	7	64K	170M	Y	Y	SCSI	Y	Y	UNIBUS	1.5M	17	Y	
CDU620/20	7	64K	20M	Y	Y	SCSI	Y	Y	UNIBUS	1M	68	Y	$1,995
CDU620/40	7	64K	40M	Y	Y	SCSI	Y	Y	UNIBUS	1.5M	30	Y	
CDU620/70	7	64K	70M	Y	Y	SCSI	Y	Y	UNIBUS	1.5M	28	Y	$3,195
CQD-300	2	64K	170M	Y	Y	EDSI	Y	Y	Q-bus	2.4M	17	Y	$1,250
CMS Enhancements, Inc. 714 259-9555													
CQE-30	2	16K	2.8G	Y	Y		Y	Y	Q-bus	3.2M		Y	$1,020
CQS-20	7	16K	4M	Y	Y	SCSI	Y	Y	Q-bus	2M		Y	$924
CUS-70	7	16K	2.8G	Y	Y		Y	Y	UNIBUS	2M		Y	$1,180
DILOG 714 937-5700													
DQ235	2	1K		N	N	SMD	N	N	Q-bus	1.8M		N	$1,800
DQ246	4	32K	4G	Y	Y	SMD	Y	N	Q-bus	2.5M		Y	$1,950
DQ256	2	32K	6G	Y	Y	SMD	Y	Y	Q-bus	3M		Y	$2,250
DU236	4	32K	6G	Y	Y	SMD	Y	Y	UNIBUS	2.5M		Y	$2,600
DU256	4	32K		Y	Y	SMD-E	Y	Y	UNIBUS	3M		Y	$2,950
DU686	4	16K	4G	Y	Y	ESDI	Y	Y	UNIBUS	1.8M	10	Y	$1,950
SQ706A	7	64K	4.5G	Y	Y	SCSI	Y	Y	Q-bus	2-3M		Y	$1,500
SQ716A	7	64K	4.5G	Y	Y	SCSI	Y	Y	Q-bus	2-3M		Y	$1,675
Emulex Corporation 714 662-5600													
QD21	1-4	26K		Y	Y	ESDI	Y	Y	Q-bus	2M		Y	$1,495
QD24	1-4	57K		Y	Y	ESDI	Y	Y	Q-Bus	15MHz		Y	$1,795
QD33	2	26K		Y	Y	SMD-E	Y	Y	Q-bus	2M		Y	$2,200
QD34	1-4	32K		Y	Y	SMD-E	Y	Y	Q-bus	3M		Y	$2,495
SC7003	4-8	8K		Y	N	SMD	Y	N	U/B	3M			$8,950
SC72/BX	4	8K	80M	Y	N	SMD	Y	N	PDP-11	1.8M			$7,950
UD23	4	32K		Y	Y	ESDI	Y	Y	UNIBUS	2M		Y	$2,800
UD33	4	26K		Y	Y	SMD-E	Y	Y	UNIBUS	3M		Y	$3,500
VMASTER 780	4					SMD			UNIBUS				$8,550
VMASTER 783	4								UNIBUS				$13,000



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In addition, RAXCO's exclusive RABBIT I/O Monitor reports on disk and file activity for effortless load balancing and tuning. You'll see which applications will benefit most from RABBIT-11's powerful features to enhance your VAX's performance.

Most importantly, RABBIT-11's write-through and shadow recording features keep your data secure without compromising system performance.

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SOFTWARE INC.

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DISK CONTROLLERS

Model	# of Supported Drives	Data Buffer Size (Bytes)	Storage Capacity (Bytes)	Bad Block Replacement	On-Board Formatting	Device Interface	Overlapping Seeks	On-board Diagnostics	Host Interface	Data Transfer Rate (bps)	Access Time (ms)	MSCP Emulation	Price
KOM, Inc. 613 238-7766													
Optifile II			800M			SCSI			U/Q	5M			$12,000
Optifile III		400K	800M			SCSI			U/Q	5M			
Lago Systems 408 374-1818													
LS/100	4		13.5G			ESDI				2.8M		Y	$6,500+
LS/100E	4		2.2G		N	ESDI						Y	$3,000
LS/100M	1		1.7G		N	SMD						Y	$1,500+
LS/100X	1		1.7G		N	SMD						Y	$1,500+
MDB Systems, Inc. 714 998-6900													
MDB-DK11-RM						SMD			UNIBUS				$3900
MDB-DK11-RP						SMD			UNIBUS				$3900
Memory Sciences Corporation 703 361-9745													
FASTOR	64	1M	49G	Y	Y		Y	Y	U/Q/B	40M		Y	$12,500
Micro Technology, Inc. 714 632-7580													
MQD-19	4	128K	2480M	Y	Y	ESDI	Y	Y	Q-bus	15MHz		Y	$1,850
MQDX4	4	128K	800M	Y	Y	ESDI	Y	Y	Q-bus	3M		Y	$1,850
Mini Computer Technology 408 435-1616													
MCT 1300	2												
SMV-15	2		1.2G			SMD							
Pioneer Communications of America, Inc. 800 421-6450													
DD-C5001	4	256K		Y		SCSI	Y	Y		1.5M		N	
Qualogy 408 434-5200													
QLC-1000		64K	2.4G			SCSI			Q-bus			Y	$1,995
Scientific Micro Systems, Inc. 415 964-5700													
SMS 0108	2				Y	ESDI			Q-bus	2.35M			
SMS 0109	1				Y	ESDI			Q-bus	2.35M		Y	
Sigma Information Systems 714 630-6553													
SDC-RQD11-D	2	32K	290M	Y	Y	ST506	Y	Y	Q-bus	625K	14	Y	$701
SDC-RQD11-DESDI	4	51.2K	3.04G	Y	Y	ESDI	Y	Y	Q-bus	15M	14	Y	$778
SDC-RQD11-EC	4	1M	3.04G	Y	Y	ESDI	Y	Y	Q-bus	625K	2.3	Y	$1,357
SDC-RQD11-RLL	2	32K		Y	Y	ST412	Y	Y	Q-bus	7.5M	18	Y	$744
SDC-RQD11-SC	2	1M	4.86	Y	Y	SMD	Y	Y	Q-bus	3M	2	Y	$1,357
SDC-RQD11-SCH	2	1M	2.46	Y	Y	SMD	Y	Y	Q-bus	3.1M		Y	$1,651
SDC-RQD11-SCSI	7	48K		Y	Y	SCSI	Y	Y	Q-bus	15M	18	Y	$1,211
ST-412/RLL	2			Y			Y						$744
Webster Computer Corporation 408 745-0660													
SRQD11-B	2	512	566M	Y	Y	ST506	N	Y	Q-bus	260K	3	Y	
WQESD	4	1M	1.7G	Y	Y	ESDI	Y	Y	Q-bus	3M	4	Y	
WQSMD	2	1M	1.17G	Y	Y	SMD	Y	Y	Q-bus	3M	2	Y	
WUESD	4	1M	1.7G	Y	Y	ESDI	Y	Y	UNIBUS	3M	4	Y	$2,800
WUSMD	4	1M	1.17G	Y	Y	SMD	Y	Y	UNIBUS	3M	2	Y	$3,020
Wespercorp 714 261-0606													
DC231A	4					SMD			UNIBUS				$3,150

DISK CONTROLLERS

Model	# of Supported Drives	Data Buffer Size (Bytes)	Storage Capacity (Bytes)	Bad Block Replacement	On-Board Formatting	Device Interface	Overlapping Seeks	On-board Diagnostics	Host Interface	Data Transfer Rate (bps)	Access Time (ms)	MSCP Emulation	Price
Winchester Systems, Inc. 617 933-8500													
Converter Board									UNIBUS				
MSCP/ESDI	4			Y		ESDI			Q-bus			Y	
MSCP/ESDI	8					SCSI			Q-bus			Y	
MSCP/ST506	4					ST506			Q-bus			Y	
RL02/ST506	4					ST506			Q-bus				

DISK DRIVES

Model	Drive Size	Fixed/ Removable	Drive Interface	Storage Capacity (Bytes)	Access Time (ms)	Host Interface	Average Seek Time (ms)	Average Latency (ms)	Data Transfer Rate (bps)	MTBF (hrs)	# of Cylinders	Price
Alpha Data, Inc. 818 882-6500												
Atlas 520		F	SMD-E	520M	18	UNIBUS	18	8.3	1.8M	20K	225	
Atlas 520-8R		F	SMD	520M	18	U/Q	18	8.3	16M	35K	231	
American Digital Systems, Inc. 508 443-7711												
Series 5	5.25"	F/R*	ESDI	152M	6.39	U/Q/B	16	8.33	10M	40K		
Series 5	5.25"	F/R*	ESDI	303M		U/Q/B	16		10M	40K		
Series 5	5.25"	F/R*	ESDI	369M	6.39	U/Q/B	16	8.33	10M	40K		
Series 5	5.25"	F/R*	ESDI	455M	6.39	U/Q/B	16	8.33	10M	40K		
Series 5	5.25"	F/R*	ESDI	607M	6.39	U/Q/B	16	8.33	10M	40K		
Series 5	5.25"	F/R*	ESDI	737M	6.39	U/Q/B	16	8.33	19.4M	40K		
Series 5	5.25"	F/R*	ESDI	1.1G	6.39	U/Q/B	16	8.33	19.4M	40K		
Series 5	5.25"	F/R*	ESDI	1.5G	6.39	U/Q/B	16	8.33	19.4M	40K		
Series 8	8"	F	SMD	721M	6.39	U/Q/B	16	8.33	19.4M	40K		
Series 8	8"	F	SMD	1.4G	6.39	U/Q/B	16	8.33	19.4M	40K		
Series 8	8"	F	SMD	2.2G	6.39	U/Q/B	16	8.33	2.46M	40K		
Series 8	8"	F	SMD	2.88G	6.39	U/Q/B	16	8.33	2.46M	40K		
Century Data Systems 714 632-7500												
14404	5.25"	F	ESDI/SCSI	114M	25	UNIBUS			10M			$1,500
14404	5.25"	F	ESDI/SCSI	140M	25	UNIBUS			10M			$1,700
14404	5.25"	F	ESDI/SCSI	170M	25	UNIBUS			10M			$2,000
AMS200	14"	F		174M	8.3	UNIBUS	25	8.3	1.2M	>9K	815	
AMS300	14"	F		256M	8.3	UNIBUS	25	8.3	1.2M	>9K	823	
C12000		F	SMD-E	1.2G			15	8.3	2.4M	40K	1831	
C2400		F	SMD	344M			15	8.3	1.209M	40K	711	
C2476		F	SMD-E	474M			15	7.5	1.86M	40K	842	
C2600		F	SMD-E	515M			15	8.3	1.8M	40K	711	
C2800		F	SMD-E	696M			15	8.3	2.4M	40K	842	
DS21000	8"	F		1G		UNIBUS	15	8.3	2.5M	30K		
DS21200	8"	F		1G	8.3	UNIBUS	18	8.3	2.5M	30K		
DS21500	8"	F		1.3G	8.3	UNIBUS	18	8.3	2.5M	30K		
DS2600	8"	F				UNIBUS						$14,500
DS2800	8"	F		716M		UNIBUS						$17,100
DS300	14"	R		256M	8.3	UNIBUS	30	8.3	1.2M	>9K	823	

DISK DRIVES

Model	Drive Size	Fixed/ Removable	Drive Interface	Storage Capacity (Bytes)	Access Time (ms)	Host Interface	Average Seek Time (ms)	Average Latency (ms)	Data Transfer Rate (bps)	MTBF (hrs)	# of Cylinders	Price
Century Data Systems 714 632-7500 (continued)												
DS400	14"	R		384M		UNIBUS	26.5	8.3	1.8M	>9K	823	
T2801	8"	F	SMD-M	692M		UNIBUS	15	8.3	2.5M	>20K	845	$16,400
T472	5.25"	R	SMD-E	472M	26	UNIBUS			1.8M			$12,400
EMC Corporation 508 435-1000												
MRA 1200	8"			1.2G	25.5		16					
MRA 1600	8"			1.6G	25.5		16					
MRA 1800	8"			1.9G	25.5		16					
MRA 2400	8"			2.5G	25.5		16					
MRA 3200	8"			3.3G	25.5		16					
MRA 600	8"			622M	25.5		16				1380	
MRA 800	8"			825M	25.5		16				1634	
Exsys Storage Systems 408 292-0343												
RACE-380	5.25"	F	ESDI	313M		U/B	<16	8.3	15M	30K	1632	
RACE-760	5.25"	F	ESDI	587M		U/B	<16	8.3	15M	30K	1632	
First Computer Corporation 312 920-1050												
DSSVME1K	10.5"			474M		UNIBUS						$38,625
DSSVMEEK	10.5"			948M		UNIBUS						$51,850
DSSVMEEQ	10.5"			948M		UNIBUS						$46,325
DSSVMEXQ	10.5"			474M		UNIBUS						$33,125
DSSVSE1K	10.5"			474M		UNIBUS						$44,150
DSSVSEEK	10.5"			948M		UNIBUS						$57,300
DSSVSEEQ	10.5"			948M		UNIBUS						$51,750
DSSVSEXQ	10.5"			474M		UNIBUS						$38,550
DSSVSEXQ	10.5"			474M		UNIBUS						$38,550
DSSVUE1K	10.5"			474M		UNIBUS						$33,475
DSSVUEEK	10.5"			948M		UNIBUS						$46,700
DSSVUEEQ	10.5"			948M		UNIBUS						$41,175
DSSVUEXQ	10.5"			474M		UNIBUS						$29,950
VM23514773	10.5"			474M		UNIBUS						$23,675
VU23514782	10.5"			474M		UNIBUS						$18,275
Fujitsu America, Inc. 408 432-1300												
M2246E/S	5.25"	F	ESDI	389M			18	8.3	1.25M	30K	1243	
M2249E/S	5.25"	F	ESDI/SCSI	389M			18	8.3	1.87M	30K	823	
M2263E/S	5.25"	F	ESDI/SCSI	778M			16	8.3	1.87M	30K	823	
M2333K/KS	8"	F	SMD-H/SCSI	168M			20	8.3	1.229M	20K	823	
M2333P	8"	F	IPI-2	337M			20	8.3	2.458M	20K	823	
M2344K/KS	8"	F	SMD-H/SCSI	690M			16	8.3	2.458M	>35K	624	
M2350	10.5"	F	SMD-M	474M			18	7.58	9.295M	35K	842	
M2360	10.5"	F	SMD-H	689M			18	8.17	12.534M	35K	842	
M2372K/KS	8"	F	SMD-H/SCSI	823M			16	8.3	2.458M	35K	745	
M2380A	8"	F	SMD-E	1G			16	8.25	18.07M	30K	745	
M2382K/KS	8"	F	SMD-E/SCSI	1G			16	8.3	3M	35K	745	
M2382P	8"	F	IPI-2	1G			16	8.3	3M	35K	745	
M2392K	8"	F	SMD	2.02G			12	8.3	3M	50K	1916	
Imprimis Technology, Inc. 612 931-8658												
FSD 9715-300	9"	F	SMD	315M	28.3	UNIBUS	20	8.3	1.2M	30K	823	
FSD 9715-340	9"	F	SMD	344M	26.3	UNIBUS	18	8.3	1.2M	30K	711	
FSD 9715-500	9"	F	SMD/SMD-E	515M	26.3	UNIBUS	18	8.3	1.8M	30K	711	

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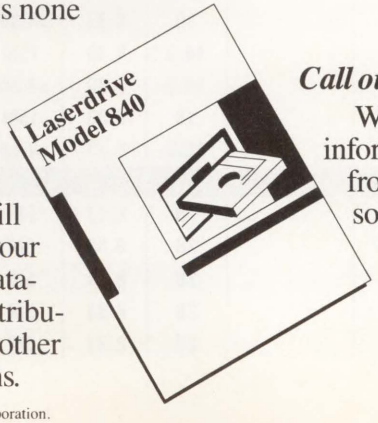
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DISK DRIVES

Model	Drive Size	Fixed/ Removable	Drive Interface	Storage Capacity (Bytes)	Access Time (ms)	Host Interface	Average Seek Time (ms)	Average Latency (ms)	Data Transfer Rate (bps)	MTBF (hrs)	# of Cylinders	Price
Imprimis Technology, Inc. 612 931-8658 (continued)												
RSD 9710	9"	R	SMD	82.9M	35.3	UNIBUS	27	8.33	1.2M	8K	823	
Sabre 9720-1123	5.25"	F	SMD-E	1.1G		UNIBUS	16	8.33	2.7M	50K		
Sabre 9720-1230	8"	F	SCSI/IPI-2	1.23M	24.3	UNIBUS	16	8.33	3M	30K	1635	
Sabre 9720-368	8"	F	SCSI	368M	26.3	UNIBUS	18	8.33	1.8M	30K	1217	
Sabre 9720-500	8"	F	SCSI	500M	26.3	UNIBUS	18	8.33	2.4M	30K	1217	
Sabre 9720-736	8"	F	SCSI	741M	24.3	UNIBUS	16	8.33	1.8M	30K	1635	
Sabre 9720-850	8"	F	SCSI/SMD	851M	24.3	UNIBUS	16	8.33	2.4M	30K	1381	
Swift 94351	3.5"	F	ESDI	172M	24.8	UNIBUS	16.5	8.3	10M	30K	1072	$1,395
Swift 94356	3.5"	F	ESDI	177M	24.8	UNIBUS	16.5	8.3	10M	30K	1072	$1,295
Wren 9416X	5.25"	F	ESDI/SCSI	155M	24.83	UNIBUS	16.5	8.3	5M	30K	969	$1,120
Wren 94181-385H	5.25"	F	SCSI	385M		UNIBUS	10.7	8.33	15.5M	40K		
Wren 94191	5.25"	F	SCSI	766M		UNIBUS	16	8.33	15M	40K		
Wren 94196	5.25"	F	ESDI	766M		UNIBUS	16	8.33	15M	40K		
Wren 94211	5.25"	F	SCSI/ESDI	91M	26.33	UNIBUS	18	8.33	10M	40K	1024	$795
Wren 94216	5.25"	F	SCSI/ESDI	91M	26.33	UNIBUS	18	8.33	10M	40K	1024	$795
Wren 94246-182	5.25"	F	ESDI	182M		UNIBUS	16	8.33	15M	40K		
Wren 94246-383	5.25"	F	ESDI	182M		UNIBUS	16	8.33	15M	40K		
Wren 94601-12G	5.25"	F	SCSI	1.2G		UNIBUS	16.5	8.33	15-21M	40K		
Wren IV 94171	5.25"	F	SCSI	376M	24.83	UNIBUS	16.5	8.3	9-15M	40K	1412	$1,645
WrenV 94171	5.25"	F	SCSI	344M	25.83	UNIBUS	17.5	8.33	9-15M	40K	1549	$1,895
WrenV 94181	5.25"	F	SCSI	702M	24.33	UNIBUS	16	8.33	9-15M	30K	1549	$2,195
WrenV 94186-383	5.25"	F	ESDI	383M	27.33	UNIBUS	19	8.33	10M	30K	1412	$1,795
WrenV 94186-383H	5.25"	F	ESDI	383M	22.83	UNIBUS	14.5	8.33	10M	30K	1224	$1,795
WrenV 94186-442	5.25"	F	ESDI	442M	24.33	UNIBUS	16	8.33	10M	30K	1412	$1,995
WrenV HH94221-209	5.25"	F	SCSI	209M	26.33	UNIBUS	18	8.33	9-15M	40K	1547	$1,225
XMD III	14"	F	SMD-E	1.3G	24.3	UNIBUS	16	8.3	3M	30K	1420	
Maxtor Corporation 408 432-1700												
LXT-100S	3.5"	F	SCSI	96M			27	8.33	1.5M	40K	733	
LXT-200	3.5"	F	SCSI	202M			15	8.33	3M	50K	1473	
XT 1085	5.25"	F	ST506	71.3M			28	8.33	5M	40K	1024	
XT 1140	5.25"	F	ST506	120M			27	8.33	5M	40K	918	
XT-1120R	5.25"	F	ST506	104M			27	8.33	5M	40K	1024	
XT-1240R	5.25"	F	ST506	196M			27	8.33	5M	40K	1024	
XT-2190	5.25"	F	ST506	160M			28	8.33	5M	40K	1224	
XT-4170E	5.25"	F	ESDI	158M			<16	8.33	10M	40K	1224	
XT-4170S	5.25"	F	SCSI	158M			<14	8.33	>4.8M	40K	1224	
XT-4380E	5.25"	F	ESDI	340M			16	8.33	10M	40K	1224	
XT-4380S	5.25"	F	SCSI	340M			16	8.33	>4.8M	40K	1224	
XT-8380E	5.25"	F	ESDI	360M			14.5	8.33	15M	30K	1632	
XT-8380S	5.25"	F	SCSI	360M			14.5	8.33	>4.8M	30K	1632	
XT-8760E	5.25"	F	ESDI	670M			18	8.33	15M	30K	1632	
XT-8760S	5.25"	F	SCSI	676M			16.5	8.33	>4.8M	30K	1632	
Micropolis Corporation 818 709-3300												
1323	5.25"		ST506/412	35M			28	8.33	5M	35K		
1323A	5.25"		ST506/412	44M			28	8.33	5M	35K		
1324	5.25"		ST506/412	53M			28	8.33	5M	35K		
1324A	5.25"		ST506/412	62M			28	8.33	5M	35K		
1325	5.25"		ST506/412	71M			28	8.33	5M	35K		

DISK DRIVES

Model	Drive Size	Fixed/ Removable	Drive Interface	Storage Capacity (Bytes)	Access Time (ms)	Host Interface	Average Seek Time (ms)	Average Latency (ms)	Data Transfer Rate (bps)	MTBF (hrs)	# of Cylinders	Price
Micropolis Corporation 818 709-3300 (continued)												
1353	5.25"		ST506/412	75M			23	8.33	10M	30K		
1353A	5.25"		ST506/412	94M			23	8.33	10M	30K		
1354	5.25"		ST506/412	113M			23	8.33	10M	30K		
1354A	5.25"		ST506/412	132M			23	8.33	10M	30K		
1355	5.25"		ST506/412	150M			23	8.33	10M	30K		
1373	5.25"		SCSI	72M			23	8.33	1.6M	30K		
1373A	5.25"		SCSI	91M			23	8.33	1.6M	30K		
1374	5.25"		SCSI	109M			23	8.33	1.6M	30K		
1374A	5.25"		SCSI	127M			23	8.33	1.6M	30K		
1375	5.25"		SCSI	145M			23	8.33	1.6M	30K		
1516-10S	5.25"		ESDI	678M			14	8.33	10M	50K		
1517-13	5.25"		ESDI	922M			14	8.33	10M	50K		
1518-14	5.25"		ESDI	993M			14	8.33	10M	50K		
1518-15	5.25"		ESDI	1064M			14	8.33	10M	50K		
1556-11	5.25"		ESDI	248M			18	8.33	10M	50K		
1557-12	5.25"		ESDI	270M			18	8.33	10M	50K		
1557-13	5.25"		ESDI	293M			18	8.33	10M	50K		
1558-14	5.25"		ESDI	315M			18	8.33	10M	50K		
1558-15	5.25"		ESDI	338M			18	8.33	10M	50K		
1566-11	5.25"		ESDI	496M			16	8.33	10M	50K		
1567-12	5.25"		ESDI	541M			16	8.33	10M	50K		
1567-13	5.25"		ESDI	586M			16	8.33	10M	50K		
1568-14	5.25"		ESDI	631M			16	8.33	10M	50K		
1568-15	5.25"		ESDI	676M			16	8.33	10M	50K		
1576-11	5.25"		SCSI	243M			18	8.33	10M	50K		
1577-12	5.25"		SCSI	265M			18	8.33	10M	50K		
1577-13	5.25"		SCSI	287M			18	8.33	10M	50K		
1578-14	5.25"		SCSI	309M			18	8.33	10M	50K		
1578-15	5.25"		SCSI	331M			18	8.33	10M	50K		
1586-11	5.25"		SCSI	490M			16	8.33	10M	50K		
1587-12	5.25"		SCSI	535M			16	8.33	10M	50K		
1587-13	5.25"		SCSI	579M			16	8.33	10M	50K		
1588-14	5.25"		SCSI	624M			16	8.33	10M	50K		
1588-15	5.25"		SCSI	668M			16	8.33	10M	50K		
1596-10S	5.25"		SCSI	668M			14	8.33		50K		
1597-13	5.25"		SCSI	909M			14	8.33		50K		
1598-14	5.25"		SCSI	979M			14	8.33		50K		
1598-15	5.25"		SCSI	1049M			14	8.33		50K		
1653-4	5.25"		ESDI	92M			16	8.33	10M	50K		
1653-5	5.25"		ESDI	115M			16	8.33	10M	50K		
1654-6	5.25"		ESDI	138M			16	8.33	10M	50K		
1654-7	5.25"		ESDI	161M			16	8.33	10M	50K		
1663-4	5.25"		ESDI	197M			14	8.33	15M	50K		
1663-4	5.25"		ESDI	246M			14	8.33	15M	50K		
1664-6	5.25"		ESDI	295M			14	8.33	15M	50K		
1664-7	5.25"		ESDI	345M			14	8.33	15M	50K		
1673-4	5.25"		SCSI	90M			16	8.33		50K		
1673-5	5.25"		SCSI	112M			16	8.33		50K		

DISK DRIVES

Model	Drive Size	Fixed/ Removable	Drive Interface	Storage Capacity (Bytes)	Access Time (ms)	Host Interface	Average Seek Time (ms)	Average Latency (ms)	Data Transfer Rate (bps)	MTBF (hrs)	# of Cylinders	Price
Micropolis Corporation 818 709-3300 (continued)												
1674-6	5.25"		SCSI	135M			16	8.33		50K		
1683-4	5.25"		SCSI	193M			14	8.33		50K		
1683-5	5.25"		SCSI	242M			14	8.33		50K		
1684-6	5.25"		SCSI	291M			14	8.33		50K		
1684-7	5.25"		SCSI	340M			14	8.33		50K		
1773-5	3.5"		SCSI	112M			15	8.33		50K		
1774-6	3.5"		SCSI	135M			15	8.33		50K		
1774-7	3.5"		SCSI	157M			15	8.33		50K		
1775-8	3.5"		SCSI	180M			15	8.33		50K		
1775-9	3.5"		SCSI	202M			15	8.33		50K		
Miltope Corporation 516 420-0200												
RDS-1501	5.25"	R	ESDI/SCSI*	18.5M	40	UNIBUS		8.33	5M			$21,850
RDS-1502	5.25"	R	ESDI/SCSI*	37M	40	UNIBUS		8.33	5M			$37,900
RDS-1721	5.25"	R	ESDI/SCSI*	160.8M	40	UNIBUS		8.33	10M			$29,325
RDS-1722	5.25"	R	ESDI/SCSI*	344M	40	UNIBUS		8.33	10M			$48,875
RDS-1724	5.25"	R	ESDI/SCSI*	642.2M	40	UNIBUS		8.33	10M			$87,400
RDS-2342	8"	R	SMD	361.2M	27	UNIBUS		9.05	10M			$85,100
RDS-2344	8"	R	SMD	722M	27	UNIBUS		9.05	10M			$96,000
RDS-3401	3.5"	R	ESDI/SCSI*	30M	40	UNIBUS		8.33	5M			$20,900
RDS-3402	3.5"	R	ESDI/SCSI*	60M	40	UNIBUS		8.33	5M			$23,000
Ramtek Corporation 408 988-2211												
ImageDisk				560M					8M			$65,999
Sony Corporation of America 201 930-6588												
MP-F52W	3.5"			1M								
MP-F52W00D	3.5"			1M								
MP-F53W	3.5"			1M								
MP-F53W00D	3.5"			1M								
OA D32V	3.5"			.5M								
OA D33V	3.5"			.5M								
OA-D32W	3.5"			1M								
Summus Computer Systems 713 492-6611												
SUM-11							18		2.4M			
System Industries 408 432-1212												
6100-22	14"			160M		UNIBUS						
6100-51	10.5"			474M		UNIBUS						
6100-66		R		256M		UNIBUS						
9722	8"	R		134M			20		1.2M	20K		
9733	5.25"	R		256M			20	8.3	2.5M	20K		
9751	10.5"	F		414M		UNIBUS	18		1.86M	28K		$16,000+
9751C	10.5	F	SMD	360M		UNIBUS	18	7.58	1.86M	25K		$14,500
9761	10.5"	F	SMD-H	512M		UNIBUS	18	8.33	2.46M	20K		$19,000+
9761C	10.5"	F	SMD-H	530M	26		18	8.33	2.5M	25K		$16,500
9766		R		256M			30		1.2M			
9798	10.5"			512M		UNIBUS	27		1.8M	25K		$16,000+
9900	8"	R		300M		U/B						
9900-22	8"	R		160M		U/B						
9900-23	8"	R		330M		U/B						
9920-51	10.5"			474M		U/B						

DISK DRIVES

Model	Drive Size	Fixed/ Removable	Drive Interface	Storage Capacity (Bytes)	Access Time (ms)	Host Interface	Average Seek Time (ms)	Average Latency (ms)	Data Transfer Rate (bps)	MTBF (hrs)	# of Cylinders	Price
System Industries 408 432-1212 (continued)												
9920-66	8"	R		300M		U/B						
9920-98	14"			670M		UNIBUS						
SI56	5.25"	F/R		338M		UNIBUS	18		1.8M			
SI57	5.25"	F/R		601M		Q-bus	18					$19,000+
SI83C	8"	F	SMD-H	522M			16	8.3	2.5K	35K		$16,500
SI85 C	8"			638.5M		UNIBUS	16					
SI93				906M			15					
SI93C	9"	F		844M			15	8.3	2.5K	30K		
SI95 C				3.4 G			16		2.75M	40K		
System Technology Associates 713 440-8340												
RA 8-1100	5.25"			1.1G			16.5	8.3	1.8M		3264	
RA 8-2100	5.25"			2.1G			16.5	8.3	1.8M		1632	
RA 8-550	5.25"			550M			16.5	8.3	1.8M		1632	
Talaris Systems Inc. 619 587-0787												
9032 Disk	3.5"	F	SCSI	32M	38		38	8.33	1.5M	30K	615	$950
Tech Labs 201 944-2221												
WL-84-D	8"	F	SMD	84M			20	8.3	1.229M	20K	589	$4,514
Toshiba America 714 583-3108												
MK-355FA	5.25"			380M	16				15M			$1,815
MK-355FB	5.25"			380M	16				15M			$1,965
MK-358FA	5.25"			760M	16				15M			$2,495
MK-358FB	5.25"		SCSI	760M	16				15M			$2,645
U. S. Design Corporation 301 577-2880												
CSS-800-870	8"			59M								$7,895
Winchester Systems, Inc. 617 933-8500												
Half-Height Winchester		F	ST506	100M			28		5M	30K		
High Speed Winchester		F	ESDI	760M			28		10M	40K		
Removable Cartridge		R	ST506	26M			40					
Removable Cartridge		R	ST506	40M			100					
Standard Winchester		F	ST506	190M			28		5M	30K		

DISK SUBSYSTEMS

Model	# of Supported Drives	# of Supported Controllers	Storage Capacity (Bytes)	Subsystem Capacity (Bytes)	Drive Size	Device Interface	Average Seek Time (ms)	Peak Transfer Rate (bps)	Host Interface	Average Latency (ms)	MSCP Emulation	Fixed/ Removable	Price
American Data Systems Marketing 617 341-0171													
SMD			80M	2.7G				1.8M	UNIBUS				$5,000+
American Digital Systems, Inc. 508 443-7711													
MasterDisk Mxxx51	1-4	1	152M	607M	5.25"		16	10M	U/Q	8.33	Y	F/R	$6,450+
MasterDisk Mxxx52	1-4	1	390M	1.56G	5.25"		16	10M	U/Q	8.33	Y	F/R	$9,350+
MasterDisk Mxxx55	1-4	1	677M	2.708G	5.25"		16	15M	U/Q	8.33	Y	F/R	$10,700+
MasterDisk Mxxx81	1-4	1	732M	2.93G	8"		16	19.7M	U/Q	8.33	Y	F	$16,750+
MasterDisk Mxxx82	1-4	1	1055M	4.22G	8"		16	6.39	U/Q	8.33	Y	F	$19,250+

DISK SUBSYSTEMS

Model	# of Supported Drives	# of Supported Controllers	Storage Capacity (Bytes)	Subsystem Capacity (Bytes)	Drive Size	Device Interface	Average Seek Time (ms)	Peak Transfer Rate (bps)	Host Interface	Average Latency (ms)	MSCP Emulation	Fixed/ Removable	Price
American Digital Systems, Inc. 508 443-7711 (continued)													
MasterDisk SDI MSExx82	1-30	1	866M	2.927G	8"	SDI	16	24M	U/Q	8.33	Y	F	$24,640+
MasterDisk/SDI MSExx55	1-40	1	550M	20.7G	5.25"	SDI	16		U/Q	8.33	Y	F/R	$15,640+
Aptec Computer Systems, Inc. 503 626-9000													
DSK-1412	1		1.2G	3.6G			16	12M				F	$118,000
Aquidneck Systems International 401 295-2691													
OAS 100			1024M										$14,500
Aviv Corporation 617 933-1165													
APEX	4	1	152M	2.5G	5.25"	ESDI	16	3M	U/Q	8.33	Y	F/R	$2,800+
DFS 61X	4	1	550M	2.2G	5.25"	ESDI	18	1.875M	U/Q/B	8.3	Y	F	$8,500+
DFS 62X	4	2	1.1G	2.2G	5.25"	ESDI	18	1.875M	U/Q/B	8.3	Y	F	$15,000+
DFS 660X-X	12	12	655M	7.8G	8"	SMD	16	2.4M	U/Q/B	8.3	Y	F	$28,000+
DFS 680X-X	12	12	850M	10.2G	5.25"	SMD	16	2.7M	U/Q/B	8.3	Y	F	$32,000+
DFS 817-9720/500	4	1	430M	1.7G	8"	SMD	18	3M	UNIBUS	8.3	Y	F	$9,000
Summit IV		1	720M	2.8G	8"	SMD	16	3M	U/Q	8.33	Y	F	$7,860+
Summit V		1	1050M	4.2G	8"	SMD	16	3M	U/Q	8.33	Y	F	$10,275+
CMD Technology, Inc. 714 549-4422													
CDU-620 Series	7		20-400M	400M	3.5"			2M	UNIBUS	17	Y	F	$1,995+
CQD-120 Series	7		20-200M	200M	3.5"			1.5M	Q-bus	28	Y	F	$1,495+
CMS Enhancements, Inc. 714 259-9555													
CPF-155S			155M	1.3G				1.25M	U/Q	16.5	Y		
CPF-180			155M	2.6G				1.25M	Q-bus	16.5	Y		$4,380
CPF-300S			300M	1.3G				1.25M	U/Q	16.5	Y		
CPF-380			319M	2.6G				1.25M	Q-bus	18	Y		
CPF-383H			319M	2.6G				1.80M	Q-bus	14.5	Y		
CPF-760			677M	2.6G				1.80M	Q-bus	18	Y		
EQR-180			155M	1.3G				1.25M	U/Q	16.5	Y		$4,022
EQR-380			319M	1.3G				1.25M	U/Q	18	Y		
EQR-380			677M	1.3G				1.80M	U/Q	18	Y		
EQR-383H			319M	1.3G				1.80M	U/Q	14.5	Y		
Codar Technology, Inc. 303 776-0472													
925RD	4		650M	2.6G	5.25"	SCSI/ESDI	16	1.5M	U/Q/B	8.33	Y	R	
Computer Upgrade Corporation 714 630-3457													
CU-SMDI	1-12			7.6G		HSC50/70		3M	UNIBUS	15		F	$20,000+
DILOG 714 937-5700													
FDR Series	1-8		760M	9G	5.25/8"	ESDI/SMD	16	2.8M		8.3	Y	F	$13,500+
FSS Series	2/4		380M	2.5G	5.25/8"	ESDI/SMD	16	1.8/3M	U/Q	8.3	Y	F	$6,185+
MSS Series	2		380M	2.46G	5.25/8"	ESDI/SMD	16	2M	U/Q	8.3	Y	R	$7,850+
MV Series	2		442M	760M	5.25"	ESDI/SCSI	16	1.8M	U/Q	8.3	Y		$4,455+
PowerDisk Series	1-4		673M		5.25"	ESDI	16	2.4M	Q-bus				$7,400+
QDR Series	1-8		760M	6G	5.25/8"	ESDI/SMD	16	1.8-2.8M		8.3	Y	R	$18,155+
RDA Series	2		848M	1.7G	8"	SMD	16	2.8M	UNIBUS	8.33	Y	F	$34,105
SSS Series	1		442M	760M	5.25"		16	1.8M	U/Q	8.3	Y	F	$4,955+
Emulex Corporation 714 662-5600													
EPS Family	4	2	7.41M	4.3G		SMD-E	18	3.0M	U/Q		Y	F	$14,400+
ER2/S	2	1	180M	1.5G	5.25"	SCSI		15M	UNIBUS	8.33		R	$5,970+
ER2E	2	1	180M	1.5G	5.25"	ESDI	18	10M	U/Q	8.33	Y	R	$6,150+
ER2E-III	2	1	180M	1.5G	5.25"	ESDI	18	10M	Q-bus	8.33	Y	R	$7,390+
SM202	4	4	663M	2.65G	8"	SDI/SMD-E	16	2.48M	UNIBUS	24.33		F	$17,580+

DISK SUBSYSTEMS

Model	# of Supported Drives	# of Supported Controllers	Storage Capacity (Bytes)	Subsystem Capacity (Bytes)	Drive Size	Device Interface	Average Seek Time (ms)	Peak Transfer Rate (bps)	Host Interface	Average Latency (ms)	MSCP Emulation	Fixed/ Removable	Price
Emulex Corporation 714 662-5600 (continued)													
SM206	12	3	663M	7.96G		SDI/SMD-E	16	2.48M	UNIBUS	8.33		F	$71,425
SM208	8	2	663M	5.3G		SDI/SMD-E	16	2.48M	UNIBUS	8.33		F	$24,595+
SM212	4	1	873M	3.49G		SDI/SMD-E	16	2.75M	UNIBUS	8.33		R	$20,306+
SM216	12	3	873M	10.5G		SDI/SMD-E	16	2.75M	UNIBUS	8.33		F	$30,296+
SM218	8	1.5	873M	6.98G		SDI/SMD-E	16	2.75M	UNIBUS	8.33		F	$27,246+
SM602	4	1	590M	2.36G		SDI/ESDI	18		UNIBUS	8.33		R	$17,165+
SM712	4	1	1.75G	6.98G		SDI/SMD-E	16	2.75M	UNIBUS	8.33		F	$33,994+
SM718	6	1.5	1.75G	10.5G		SDI/SMD-E	16	2.75M	UNIBUS	8.33		F	$41,989+
SM802	4	1	288M	1.15G	5.25"	SDI/ESDI	18	1.25M	UNIBUS	8.33		R	$15,498+
Epoch Systems, Inc. 508 481-3717													
EPOCH-1 Model 30	14	2	30G	600M	5.25"	SCSI	18	1.875M		8.33		R	$155,000
Exsys Storage Systems 408 292-0343													
RACE 4000	8		380M	2.07G	5.25"	ESDI	16	2.5M	U/Q				
RACE 4000	8		760M	2.07G	5.25"	ESDI	16	2.5M	U/Q				
RACS 4000	8		350M	2.28G	8"	SMD	16	2.8M	U/Q				
FPS Computing 800 635-0938													
P64/110			256M	15.7G	5.25"			44M					
P64/20	2	1-6	256M	6.1	5.25"		30	1.2M					
P64/20	2	1-6	855M	20.5G	5.25"		18	2M					
P64/30	2		500M	6G	5.25"		25	1.2M					$130,000+
P64/30	4		1G	6G	5.25"		25	1.2M					$130,000+
P64/40	2	1-6	855M	20.5G	5.25"		18	2M					
Group Three Electronics 408 747-1800													
3410			155M		8"	ESDI	16.5	10M	Q-bus				
3420			320M		8"	ESDI	27	10M	Q-bus				
3440			305M		8"	SMD	18	1.8M	Q-bus				
3441			415M		8"	SMD	18	2.4M	Q-bus				
3442			610M		8"	SMD	16	1.8M	Q-bus				
3480			701M		14"	SMD	16	1.8M	Q-bus				
3481			729M		14"	SMD	16	3M	Q-bus				
3482			1.1G		14"	SMD	16	3M	Q-bus				
MDB Systems, Inc. 714 998-6900													
Data Shuttle 2000	2	1	760M	1.52G	5.25"	SDI	18	15M	U/Q/B	8.33	Y	R	$21,667
Data Shuttle 1000	1	1	760M	760M	5.25"	SCSI/ESDI	18	15M	3100	8.33	Y	R	$10,045
Data Shuttle 1000	1	1	380M	760M	5.25"	SCSI/ESDI	<16	15M	3100	8.33	Y	R	$6,484
Data Shuttle 2000	2	1	380M	760M	5.25"	SCSI/ST506	<16	15M		8.33	N	R	$9,160
Data Shuttle 2000	2	2	760M		5.25"	SCSI/ESDI	18	15M		8.33	N	R	$12,541
Data Shuttle 2000	2	1	760M	1.52G	5.25"	SCSI/ESDI	18	15M	U/Q	8.33	Y	R	$11,833
Data Shuttle 2000	2	2	380M	760M	5.25"	SDI	<16	15M	U/Q/B	8.33	Y	R	$18,433
Data Shuttle 2000		1	380M	760M	5.25"	ESDI/SCSI	<16	15M	U/Q	8.33	Y	R	$7,750
Data Shuttle 3000	2		380M	760M	5.25"	SCSI/ESDI	<16	15M	U/Q	8.33	Y	R	$14,053
Data Shuttle 3000	2		760M	1.5G	5.25"	SCSI/ESDI	<16	15M	U/Q	8.33	Y	R	$17,313
Data Shuttle 4000	2		750M	1.5G	5.25"	SCSI/ESDI	<16	15M	U/Q	8.33	Y	R	$24,188
Data Shuttle 4000	2		380M	760M	5.25"	SCSI/ESDI	<16	15M	U/Q	8.33	Y	R	$20,938
Memory Sciences Corporation 703 361-9745													
FASTOR	64		760M	48G	5.25"		24.8	40M		8.3	Y	F/R	

DISK SUBSYSTEMS

Model	# of Supported Drives	# of Supported Controllers	Storage Capacity (Bytes)	Subsystem Capacity (Bytes)	Drive Size	Device Interface	Average Seek Time (ms)	Peak Transfer Rate (bps)	Host Interface	Average Latency (ms)	MSCP Emulation	Fixed/ Removable	Price
Micro Technology, Inc. 714 632-7580													
6200 Series					8mm								
Intercept Removable	14	2	1.16G	8.12G	5.25"	SDI	16	2.5M	U/Q	8.33	Y	R	$38,328
MDI-276	9	2	1.16G	10.44G	5.25"	SDI	16	1.9M	U/Q	8.33	Y	F	$25,882
MDI-276R	7	2	1.16G	8.12G	5.25"	SDI	16	2.5M	U/Q	8.33	Y	R	$38,000
MDI-476	9	2	2.3G	20G	5.25"	SDI	16	2.5M	U/Q	8.33	Y	F	$51,764
MDI-476 PLUS	9	2	2G	18G	5.25"		16	2.5M	U/Q	8.33	Y	F	$50,558
MDI-6005	2	2	4.64G	4.64G		SDI	16	2.5M	U/Q	8.33	Y	F	$75,000
MDI-6010	4	2	9.28G	9.28G	5.25"	SDI	16	2.5M	U/Q	8.33	Y	F	$145,000
MDI-6015	7	2	16.24G	16.24G	5.25"	SDI	16	2.5M	U/Q	8.33	Y	F	$245,000
MDI-6020	9	2	20.88G	20.88G	5.25"	SDI	16	2.5M	U/Q	8.33	Y	F	$310,000
MDI-6207	2	2	580M	580M	5.25"	SDI	16	2.5M	U/Q	8.33	Y	F	$30,000
MDI-6227	2	2	1.16G	1.16G	5.25"	SDI	16	2.5M	U/Q	8.33	Y	F	$40,000
MDI-6247 Plus	2	2	2G	2G	5.25"	SDI	16	2.5M	U/Q	8.33	Y	F	$65,760
MDI-76	9	2	580M	5.2G	5.25"		16	1.9M	U/Q	8.33	Y	F	$15,800
MDQ-238	2	1	640M	1.28G	5.25"	ESDI	18	1.2M	Q-bus	8.33	Y	F	$19,194
MDQ-238R	2	1	640M	1.28G	5.25"	ESDI	18	1.2M	Q-bus	8.33	Y	R	$19,194
MDQ-276	2	1	1.24G	2.48G		ESDI	16	2.5M	Q-bus	8.33	Y	R	$30,235
MDQ-276R	2	1	1.24G	2.48G	5.25"	ESDI	16	2.5M	Q-bus	8.33	Y	R	$30,235
MDQ-38	4	1	320M	1.28G	5.25"	ESDI	18	1.2M	Q-bus	8.33	Y	R	$14,295
MDQ-76	4	1	620M	2.48G	5.25"	ESDI	16	2.5M	Q-bus	8.33	Y	F	$18,970
MDQ-76R	4	1	620G	2.48G	5.25"	ESDI	16	2.5M	Q-bus	8.33	Y	R	$18,970
PMC Associates 201 934-1835													
ESDX Series	1		182M		5.25"				U/B	16.5			$5,566
Recognition Concepts, Inc. 702 831-0473													
VisiSTORE		1	100G	1.6G	8"			74.4M	UNIBUS	<60		F/R	$30,000+
Scientific Micro Systems, Inc. 415 964-5700													
SMS 1000-60	2	1	143M		5.25"			625K	Q-bus	30	Y	F/R	
SMS 1000-68	2	1	175M	380M	5.25"	EDSI		10M	Q-bus	27	Y	F	
Storage Concepts, Inc. 714 852-8511													
Concept 21			1.9G		5.25"	2350A		1.8M					
Concept 31			2.75G		5.25"	M2360A		2.4M					
Concept 51			50G		5.25"			27M					
MV21			1.9G		5.25"	ESDI		9.3M	Q-bus				
MV31			2.75G		5.25"	ESDI		12.3M	Q-bus				
Summus Computer Systems 713 492-6611													
Ethernet File Server				3G			16		Q-bus				
GigaBox-102	4		170M	20G	5.25"		23	3M	U/Q	23	Y	F	
GigaBox-104	4		382M	20G	5.25"		16	3M	U/Q	23	Y	F	
GigaBox-106	4		765M	20G	5.25"		16	3M	U/Q	23	Y	F	
GigaBox-117	8		900M	20G	8"		18	2.4M	U/Q	23	Y	F	
GigaBox-119	4		1.8G	20G	8"		18	2.4M	U/Q	23	Y	F	
GigaTape JBL 125				120G					U/Q/B				$38,000
System Industries 408 432-1212													
CLUSTOR 3/SI56/QD	2-16	4	300M	4.8G	5.25"	SDI	18	1.8M	U/Q/B	8.33		R	$45,700+
CLUSTOR 3/SI83	2-16	2	550M	8.8G	8"	SDI	16	2.458M	U/Q/B	8.3		F	$65,500+
CLUSTOR 3/SI85	2-16	2	657M	10.5G	8"	SDI	16	2.458M	U/Q/B	8.3		F	$60,400+
CLUSTOR 3/SI93	2-16	2	904M	14.5G	9"	SDI	15	2.45M	U/Q/B	8.3		F	$61,000+
CLUSTOR 5/SI56 QD	2-16	4	300M	4.8G	5.25"	SDI	18	1.8M	U/Q	8.33		R	$63,500+

DISK SUBSYSTEMS

Model	# of Supported Drives	# of Supported Controllers	Storage Capacity (Bytes)	Subsystem Capacity (Bytes)	Drive Size	Device Interface	Average Seek Time (ms)	Peak Transfer Rate (bps)	Host Interface	Average Latency (ms)	MSCP Emulation	Fixed/ Removable	Price
System Industries 408 432-1212 (continued)													
CLUSTOR 5/SI83	2-16	2	550M	88G	8"	SDI	16	2.458M	U/Q/B	8.3		F	$85,400+
CLUSTOR 5/SI85	2-16	2	657M	10.5G	8	SDI	16	2.458M	U/Q	8.3		F	$78,200+
CLUSTOR 5/SI93	2-16	2	904M	14.5G	9"	SDI	15	2.45M	U/Q	8.3		F	$76,500+
MP PAC S SI56	2-4	1	384M	1.54G	5.25"	SDI	18	1.8M	Q-bus	8.33		F	$22,900+
MP PAC S SI57	2-4	1	576M	2.3G	5.25"	SDI	18	1.8M	Q-bus	8.33		F	$31,900
MP PAC S SI57/QD	2-4	1	576M	2.3G	5.25"	SDI	18	1.8M	Q-bus	8.33		R	$29,800+
MP PAC SI56	2-4	1	384M	844M	5.25"	SDI	18	1.8M	Q-bus	8.33		F	$19,900+
MP PAC SI56/QD	2-4	1	384M	1.54G	5.25"	SDI	18	1.8M	Q-bus	8.33		R	$17,200+
MP PAC SI57	2-4	1	576M	2.3G	5.25"	SDI	18	1.8M	Q-bus	8.33		F	$23,500+
QDA 4E/QUAD PAC	1-4	1	577M	2.3G	5.25"		18	1.8M	Q-bus	8.33	Y	F	$13,700+
QDA 4E/SI56	1-4	1	319M	1.2G	5.25"		18	1M	Q-bus	8.33	Y	F	$7,600+
QDA 4E/SI56/QD	1-2	1	319M	638M	5.25"		18	1M	Q-bus	8.33	Y	R	$9,900+
QDA 4E/SI57	1-4	1	577M	2.3G	5.25"		18	1.8M	Q-bus	8.33	Y	F	$12,900+
QDA 4E/SI57/QD	1-2	1	577M	1.15G	5.25"		18	1.8M	Q-bus	8.33	Y	R	$14,400+
QDA 4S/SI83/QD	1-4	1	551M	2.2G	8"		16	2.458M	Q-bus	8.3	Y	R	$25,600+
QDA 4S/SI85	1-4	1	659M	2.6G	8"		16	2.458M	Q-bus	8.3	Y	F	$19,100
QDA 4S/SI93	1-4	1	905M	3.6G	8"		16	2.458M	Q-bus	8.3	Y	F	$24,900+
QDA 4S/ST83	1-4	1	551M	2.2G	8"		16	2.458M	Q-bus	8.3	Y	F	$21,900+
SI56C Quick Disconnect	1-8	2	384M	3.07G	5.25"	SDI	18	1.2M	U/Q	8.33		R	$13,500+
SI57C QUAD PAC	2-16	4	558M	8.9G	5.25"	SDI	18	1.8M	U/Q	8.33		F	$29,300+
SI57C Quick Disconnect	1-8	2	558M	4.46G	5.25"	SDI	18	1.8M	U/Q	8.33		R	$20,250+
SI83C	2-8	2	520M	4.16G	8"	SDI	16	2.458M	U/Q	8.3		F	$38,500+
SI83C Quick Disconnect	2-8	2	520M	4.16G	8"	SDI	16	2.458M	U/Q	8.3		R	$24,800+
SI85C	2-8	2	622M	4.9G	8"	SDI	16	2.458M	U/Q	8.3		F	$41,400+
SI85C/Quick Disconnect	2-8	2	622M	4.9G	8"	SDI	16	2.458M	U/Q	8.3		R	$41,400
SI93C	2-8	2	842M	6.7G	9"	SDI	15	2.45M	U/Q	8.3		F	$35,350+
SI95C	2-8	2	1.7G	13.6G	9"	SDI	16	2.75M	U/Q	8.3		F	$59,800+
Systems Concepts, Inc. 415 984-1000													
DS-30		4	10G						CIbus				
Tech Labs 201 944-2221													
WL-84	1	2	84M	84M	8"		20		SMD	8.3		F	$5,525
Trimarchi, Inc. 814 234-5659													
DATAKEG-300	1	1	300M	600M	5.25"		18	1.2M	MV 2000	8.33	Y	F	$5,500
DATAKEG-600	1	1	600M	600M	5.25"		18	1.2M	MV 2000		Y	F	$8,500
DQ696-9380E	1		300M	300M	5.25"	ESDI	16		Q-bus		Y	F	$3,915
DQ696-XT8760E	1		600M	600M	5.25"	ESDI	18	1.8M	Q-bus	8.3	Y	F	$5,345
EZ5FI4-DQ686-9380E-2	2		600M	600M	5.25"	ESDI	16	1.2M	Q-bus		Y	R	$8,460
EZ5FI4-QDO-XT4380S	1		300M	300M	5.25"	SCSI	18	1.2M				F	$5,970
EZ5FI4-QDO-XT4380S	1	1	300M	300M	5.25"	SCSI	18	1.2M	Q-bus	8.33	Y	F	$5,970
EZ5FI4-QDO-XT8760S-5030	1		600M	600M	5.25"	SCSI	18	1.8M	Q-bus	8.33	Y	F	$11,740
EZ5FI4-UDT-87605	1	1	600M	600M	5.25"	SCSI	18	1.8M	UNIBUS	8.33	Y	F	$12,205
EZ5MV-DQ696-9380E	1		300M	300M	5.25"	ESDI	16		Q-bus		Y	R	$10,385
EZ5MV-QDO-XT87605	1		600M	600M	5.25"	SCSI	18	1.2M	MV 2000	8.33	Y	R	$12,436
EZ5MV-UDO-XT-87605	1	1	600M	3.6G	5.25"	SCSI	18		UNIBUS	8.33	Y	R	$12,645
MV2000-EX5FA-LASERASE	1	1	300M	600M	5.25"	SCSI		1.2M	MV 2000		Y	F	$6,200
QDO-9380S-5030	1		300M	300M	5.25"	SCSI	16	1.2M	U/Q		Y	F	$7,945
QDO-LASERASE 5030	1	1	300M	600M	5.25"	SCSI		1.2M	Q-bus		Y	R	$5,295
QDT-9380S-EXB8200	1	1	300M	300M	5.25"	SCSI	16	1.2M	Q-bus		Y	F	$8,210

DISK SUBSYSTEMS

Model	# of Supported Drives	# of Supported Controllers	Storage Capacity (Bytes)	Subsystem Capacity (Bytes)	Drive Size	Device Interface	Average Seek Time (ms)	Peak Transfer Rate (bps)	Host Interface	Average Latency (ms)	MSCP Emulation	Fixed/ Removable	Price
Trimarchi, Inc. 814 234-5659 (continued)													
RD54-FA	1	1	150M	150M	5.25"	ST506	30	5M	MV 2000	8.33	Y	F	$2,750
UDT-XT8760S-EXB8200	1	1	600M	600M	5.25"	SCSI	18	1.8M	UNIBUS	8.33	Y	F	$10,460
Tristar Technology 201 784-1557													
Orion 1000	2	1	380M	380M	5.25"	ST506	28.9	.9M	U/Q/B	8.3	Y	R	$2,300+
Orion 2000	2		1.5G	1.5G	5.25"	ESDI	16.5	1.9M	U/Q/B	8.33	Y	R	$2,300+
Orion 3000	2	1	1.5G	1.5G	5.25"	SCSI	16.5	1.9M	U/Q/B	8.33	Y	R	$2,300+
Orion 4000	2	1	1.5G	1.5G	5.25"	SDI	16.5	1.5M	U/Q/B	8.33	Y	R	$8,000+
PSA600-FA	4		2.69G	2.69G	5.25"	ESDI	16	2.5M	U/Q/B	8.33	Y	F	$32,564
PSA600-JA	16		9.97G	9.97G	5.25"	ESDI	16	2.5M	U/Q/B	8.33	Y	F	$124,352
PSA601-JA	12		9.75G	9.75G	8"	SMD	16	2.8M	U/Q/B	8.33	Y	F	$179,674
U. S. Design Corporation 301 577-2880													
Q-Kit	4	1	760M	760M	5.25"		16	1M	Q-bus		Y	F/R	$3,250
QD	2		2.3G	2.3G	5.25"	SCSI	16		U/Q		Y	F/R	$2,800
QS	4		3.2G	3.2G	5.25"	SCSI	16		U/Q		Y	F/R	$4,095
QT	1		2.3G	2.3G	5.25"	SCSI	16	1M	U/Q		Y	F/R	$2,600
VIP	1-4		636M		5.25"		30	625K					
VIP/E	1-4		2.63G	2.63G	5.25"		10	1M	U/Q	8.3	N	F/R	$4,600
VIP/H	4	2	550M	2.2G	5.25"	SDI	16	2.4M	U/Q		Y	F	$18,000
Unbound, Inc. 800 862-6863													
Series QB-500			148M	1.3G		ESDI/SCSI			Q-bus		Y		$5,000+
Series QT-600			325M	2.6G		ESDI/SCSI			Q-bus		Y		$8,500+
Series UB-500			148M	1.3G		ESDI/SCSI			UNIBUS		Y		$6,000+
Series UT-600			148M	1.3G		ESDI/SCSI			UNIBUS		Y		$9,500+
Winchester Systems, Inc. 617 933-8500													
DataSafe	7		380M	6G			4		U/Q			R	$8,995+

OPTICAL DRIVES

Model	Drive Size	# of Tracks Per Disk	Storage Capacity (Bytes)	Average Seek Time (ms)	Average Latency (ms)	Device Interface	Data Transfer Rate (bps)	Buffer Size (Bytes)	Host Interface	ECC	MTBF (hrs)	MSCP Emulation	Price
Aviv Corporation 617 933-1165													
OSS 2000/825B			2.04G			SCSI			U/B	Y	5K		$35,000
Computer Upgrade Corporation 714 630-3457													
OSR/VAX-U1		64K	2G		62.5	SCSI		44K	UNIBUS	Y	12K		$20,000
Information Storage inc. (ISi) 719 579-0460													
525GB		32.2K	1.28G	90	16.7	SCSI	6.5M	1024	U/Q/B	Y	15K		$4,282
525GBX2		31.2K	2.56G	90	16.7	SCSI	6.5M	1024		Y	15K		$7,833
Laser Magnetic Storage 719 593-7900													
1200		32K	1G		62.5	SCSI		44K		Y	12K		$9,450
510	5.25"	19.8K	654M		13.7	SCSI		64K		Y	15K		$2,880
Laserdrive 408 920-3600													
840			810M	99	65	SCSI	272K		Q-bus	Y	20K		

OPTICAL DRIVES

Model	Drive Size	# of Tracks Per Disk	Storage Capacity (Bytes)	Average Seek Time (ms)	Average Latency (ms)	Device Interface	Data Transfer Rate (bps)	Buffer Size (Bytes)	Host Interface	ECC	MTBF (hrs)	MSCP Emulation	Price
Maxtor Corporation 408 432-1700													
RXT-800S	5.25"		800M	108	60	SCSI	1.25M				30K		$1,300
Tahiti	5.25"		650M/1G*	35	13.6	SCSI	10M				30K		
Optimem 415 961-1800													
1000		25K	2G	150	27	SCSI*		256K		Y	10K		$13,600
Perceptics Corporation 615 966-9200													
LD1200	12"		2G						UNIBUS			Y	
Optimem 1000			2G						UNIBUS			Y	
Optimem 2400		47K	2.4G	150	27	SCSI*	625K		UNIBUS	Y	12K		
Pioneer Communications of America, Inc. 800 421-6450													
DD-M5001		20000	654M	60	16.7	IDI	1.5M	256	U/Q/B	Y	30K		
DD-U5001		20000	654M	60	16.7	SCSI	1.5M	256K	U/Q/B	Y	30K		
Summus Computer Systems 713 492-6611													
LightDisk 650				90			680K						$6,995
TECEX 714 632-6672													
TEC-OAS/1			2G						UNIBUS				$15,000+
TX-2200			2G						UNIBUS				$14,500
Toshiba America 714 583-3108													
WM-S070	5.25"			90		SCSI			U/Q/B		10K		$3,595
WM-S500	12"		5G	160	49	SCSI	4-8M		UNIBUS		10K		$16,500
XM-3100B	5.25"		680M			SCSI			UNIBUS				
U. S. Design Corporation 301 577-2880													
QT650			650M						U/Q			Y	$8,230
Unbound, Inc. 800 862-6863													
OPTO-5020 QUBE			800M						UNIBUS				$4,500+
Winchester Systems, Inc. 617 933-8500													
Optical Disk			800M				3M				30K		

OPTICAL SUBSYSTEMS

Model	Drive Size	Erasable	Storage Capacity (Bytes)	Access Time (ms)	Average Latency (ms)	Device Interface	Data Transfer Rate (bps)	Buffer Size (Bytes)	Host Interface	MTBF (hrs)	MSCP Emulation	Price
Adept Digital Systems, Inc. 408 435-9151												
OSI LD1200				150	62.5		256K	44K	UNIBUS	10K		$19,000
Alphatronix 919 544-0001												
Infinity	5.25"	Y	4550M						U/Q		Y	
Aquidneck Systems International 401 295-2691												
OAS 100			6.8G			SCSI			UNIBUS			$23,300+
OAS 150			6.8G			SCSI			UNIBUS			$28,300+
OAS 2000			300G			SCSI			UNIBUS			$95,000+
OAS 3420			6.8G			SCSI			UNIBUS			$34,500+
Aviv Corporation 617 933-1165												
OSS2000			2G						U/Q			$32,000



A New Five and a Quarter from Perceptics!

Announcing 5-1/4" WORM Optical Disk Subsystems.

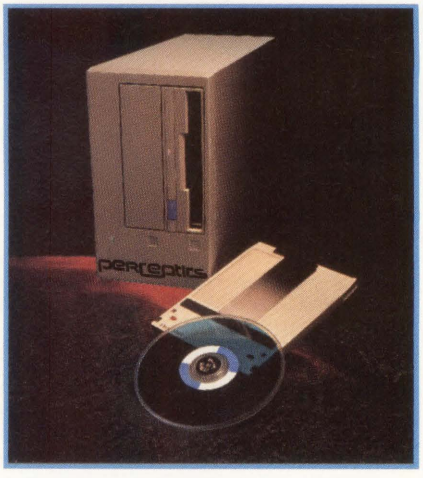
Perceptics introduces LaserSystem 525. Based on an ISO standard 5-1/4" WORM optical disk drive, the subsystem stores up to 654 megabytes of data on each removable media. And it's brought to you by the leader in DEC VAX/VMS-based optical storage solutions.

LaserSystem 525 has the same advantages as larger Perceptics 12" optical disk subsystems–and more. You receive the same low cost per megabyte of storage, use removable media and retain the data integrity and long life of the larger subsystem. Plus superior access time and transfer rates. And, naturally, the LaserSystem 525 is compatible with the LaserStar 525 jukebox subsystem.

A complete, integrated, ready-to-use optical disk subsystem. It includes: 5-1/4" write-once read-many (WORM) optical disk drive, SCSI host adapter, cables and the industry standard optical disk software . . . LaserWare, also by Perceptics.

There's no need to modify your current software. LaserWare features a VAX/VMS transparent file system which allows true magnetic disk drive emulation, so existing software and applications require no modification to utilize the massive storage capacity of optical disks. Media, installation and on-site maintenance services are also available.

Take advantage of the lower cost. LaserSystem 525 costs more than the $5.25 pictured above, but it's about one-third of the cost of 12" optical disk subsystems. This makes it ideal for individual workstations or any application requiring low cost, high capacity, removable media and data integrity. Call us at Perceptics to find out how we can help you solve your mass storage needs.



perceptics

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OPTICAL SUBSYSTEMS

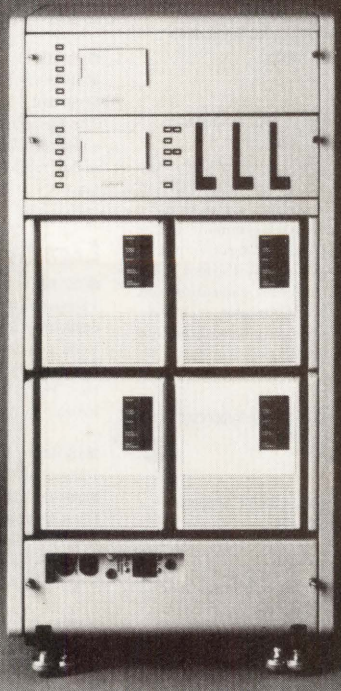
Model	Drive Size	Erasable	Storage Capacity (Bytes)	Access Time (ms)	Average Latency (ms)	Device Interface	Data Transfer Rate (bps)	Buffer Size (Bytes)	Host Interface	MTBF (hrs)	MSCP Emulation	Price
Computer Upgrade Corporation 714 630-3457												
OSR-VAX/U1	5.25"		40G	220	25	SCSI			UNIBUS	20K		$19,995
Cygnet Systems, Inc. 408 773-0770												
5250	5.25"					SCSI			UNIBUS			
Series 1800	12"											
EMC Corporation 508 435-1000												
Archeion 1000			56G			SCSI			U/Q			
Emulex Corporation 714 662-5600												
LX410	12"	N	2G	150	27	SCSI	190K		U/Q	10K	Y	$19,340+
LX412	12"	N	2G	150	62.5	SCSI	190K		UNIBUS	10K	Y	$20,350+
IPS Technology 713 870-0880												
2000	12"		6G	150			250K		U/B	5K		$24,495
2058	5.25"			168			250K		U/B	20K		
OptiServer			820G						U/Q			
Laserdrive 408 920-3600												
840	5.25"	N	810M	175	65	SCSI	2.18M		Q-bus	20K	Y	
MCS Computer Products, Inc. 612 770-5232												
OAS 100/150			2T						UNIBUS			$38,500+
Perceptics Corporation 615 966-9200												
LaserStar	12"		200G									
LaserStar 2400	12"		338G					64K				
LaserSystem			2G	150	62.5	SCSI				12K	Y	
LaserSystem 525	5.25"			150	62.5	SCSI			U/Q	12K	Y	
Pioneer Communications of America, Inc. 800 421-6450												
DD-S5001	5.25"	N	1.3G	76.7	16.7	SCSI	490K	256K		30K	N	
Qualogy 408 434-5200												
QLC-5000	12"		2.4G				270K		Q-bus		Y	$19,000
Scientific Micro Systems, Inc. 415 964-5700												
601	12"		3.2G	800		SCSI	1.1M		Q-bus		Y	
661	5.25"		800M	800		SCSI	1.1M		Q-bus		Y	
Summus Computer Systems 713 492-6611												
LightDisk-650	5.25"			90		SCSI	620K	64K	U/Q			
Tristar Technology 201 784-1557												
PE 3660-1D	5.25"	Y	650M	61		SCSI		256K	U/Q		Y	$5,914
PE 3660-2D	5.25"	Y	1.3G	61		SCSI		256K	U/Q		Y	$11,498
U. S. Design Corporation 301 577-2880												
JukeVOS	5.25"	Y	164G			SCSI			U/Q	15K	Y	$35,000
JukeVOS	12"	Y	164G			SCSI			U/Q	15K	Y	$35,000
QD650		Y							U/Q		Y	$8,723
QS650		Y							U/Q		Y	$17,005
VOS-T	5.25"		3.2G			SCSI			U/Q	20K	Y	$1,995
VOS-T	12"		3.2G			SCSI			U/Q	20K	Y	$1,995

SOLID STATE STORAGE

Model	# of Supported Disks	Word Size (bit)	Storage Capacity (Bytes)	Data Transfer Rate (bps)	Bus Loading	Disks Emulated	Access Time (ms)	Average Latency (ms)	Supported Hosts	ECC/EDC	MSCP Emulation	Price
Dataram Corporation 609 799-0071												
DRD-202			4-8M			RF-11						$16,400+
DRD-204			2-8M			RJS 03/04		0				$12,500+
DRD-207			128M							Y/-		$16,700
Digital Instruments Corporation 800 222-IMAX												
QMDISK/Internal		16-bit	32M	2M	One	DEC VM:				N/N	N	$3,130
FPS Computing 800 635-0938												
P64/110			256M									
Imperial Technology, Inc. 213 536-0018												
MegaCard-MP			512M	1.2M				0		Y	Y	
MegaCard-RL			40M	1.5M		RL01		0		Y		
MegaCard-RL			40M	1.5M		RL02		0		Y		
MegaRam			32M									
MegaRam-VX	1	16/32	512M	1.8M	One	RA8x	2	0		Y/Y	Y	
MG-K11	1	16	32M	1.8M	One	RK06/07	2			Y/Y		
MG-L11	1-4	16	32M	1.8M	One	RL01/02	2			Y/Y		
Memory Sciences Corporation 703 361-9745												
FASTOR	72	32	20G	5.5M		RDB32	1	0		Y/Y		$12,000+
Pioneer Communications of America, Inc. 800 421-6450												
CD-ROM Minichanger	6	8	3.2G	1.5M						Y		
See First Technology, Inc. 408 748-7717												
RDC-16			16M	1.5M	One		6			-/Y		
RDE-32			32M	1.5M	One		6			-/Y		
System Industries 408 432-1212												
MegaCard-MP	1	16	512M	1.2M	One	RA8x	80	0	U/Q	Y/Y	Y	$10,500+
MegaCard-RL	1	16/32	40M	1.5M	One	RL01/02	80	0	UNIBUS	Y/Y	N	$7,300+
MegaRam-K11	1	16	112M	1.8M	One	RK06/07	2	0	UNIBUS	Y/Y	N	$10,600+
MegaRam-L11	1-4	16	40M	1.8M	One	RL01/02	2	0	UNIBUS	Y/Y	N	$10,600+
MegaRam-SDI	1	16	512M	2.8M	One	RA8x		0		Y/Y	Y	$18,050+
MegaRam-VX	1	16/32	512M	1.8M	One	RA8x	80	0		Y/Y	Y	$14,000+

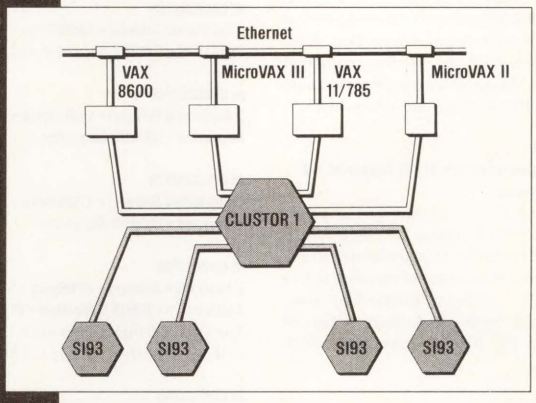
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Some things are meant to be shared. Like our SI93 disk drive for instance. With a 15 ms average seek time and 50,000 hour MTBF, the SI93 is one of the fastest, most reliable disk drives ever made. But how can you share its performance without the high cost of VAXclusters?

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Clustor 1 connects up to four DEC CPUs with four SI93 drives—3.6 GB—at data transfer rates of 2.5 MB per second. And because Clustor 1 supports MicroVAXes as well as full VAXes, your system costs drop dramatically. In fact, the Clustor family is the only direct-connect shared storage for MicroVAXes. As you grow, Clustor 1 keeps pace. There's an upgrade to our 8 MB Disk Cache Processor and support for more CPUs and drives.

System Industries is the DEC-compatible market's storage subsystem leader. And customer support is a major reason. Call System Industries today at **800-333-2220** for complete information.

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Disk Controllers

Andromeda Systems, Inc.

■ **ESDC RX50/33**
7 Supported Drive(s) • 1MByte • ESDI Supported • Q-bus Supported
Optional 16MB cache expansion board available, supports Winchester and RX50/RX33 floppy drives, and reduces seek time and rotational latency to zero 80% of the time. Upgrades to the ESDC are available via modem.

■ **RDC11**
4 Supported Drive(s) • ST506 Supported • Q-bus Supported
Equipped with an Online Configuration Tool (OCT) which allows the user to configure the controller to operate any ST506 compatible Winchester or cartridge drives and 5.25" or 8" floppy drives. This eliminates the need for factory configured PROMs. Removable controller that supports both cartridges and Winchesters.

■ **SDC11**
1 Supported Drive(s) • ST506 Supported • Q-bus Supported
Equipped with an Online Configuration Tool (OCT) which allows the user to configure the controller to operate any ST506 compatible Winchester or cartridge drives and 5.25" or 8" floppy drives. This eliminates the need for factory configured PROMs. The SDC11 supports one Winchester.

■ **SMDC**
2 Supported Drive(s) • 1MByte • SMD Supported • Q-bus Supported
Equipped with an Online Configuration Tool (OCT) which allows the selection/alteration of caching parameters, drive configuration and formatting with the use of EEPROMs.

■ **UDC11**
4 Supported Drive(s) • ST506 Supported • Q-bus Supported
Equipped with an Online Configuration Tool (OCT) which allows the user to configure the controller to operate any ST506 compatible Winchester or cartridge drives and 5.25" or 8" floppy drives. This eliminates the need for factory configured PROMs. The UDC11 supports Winchester or RX33/50 floppy drives.

■ **UDC11X**
4 Supported Drive(s) • ST506 Supported • Q-bus Supported
Equipped with an Online Configuration Tool (OCT) which allows the user to configure the controller to operate any ST506 compatible Winchester or cartridge drive and 5.25" or 8" floppy drives. This eliminates the need for factory configured PROMs. The UDC11X supports Winchester and RX02 floppy drives.

■ **WDC11**
4 Supported Drive(s) • ST506 Supported • Q-bus Supported
Equipped with an Online Configuration Tool (OCT) which allows the user to configure the controller to operate any ST506 compatible Winchester or cartridge drive and 5.25" or 8" floppy drives. This eliminates the need for factory configured PROMs. The WDC11 supports two Winchesters and two RX02 compatible floppy drives.

Aviv Corporation

■ **DFC 804**
8 Supported Drive(s) • ESDI Supported • UNIBUS Supported • $2,000

■ **DFC 817**
8 Supported Drive(s) • SMD Supported • UNIBUS Supported • $2,300

■ **DFC 904**
8 Supported Drive(s) • ESDI Supported • Q-bus Supported • $1,650
Features 1MB cache buffer high-speed access, four ESDI disk drives and extensive on-board diagnostics utilities.

■ **DFC 917**
4 Supported Drive(s) • SMD Supported • Q-bus Supported • $1,650

CMD Technology, Inc.

■ **CDU620/100**
7 Supported Drive(s) • 100MBytes • SCSI Supported • UNIBUS Supported • $3,695

■ **CDU620/140**
7 Supported Drive(s) • 140MBytes • SCSI Supported • UNIBUS Supported

■ **CDU620/170**
7 Supported Drive(s) • 170MBytes • SCSI Supported • UNIBUS Supported

■ **CDU620/20**
7 Supported Drive(s) • 20MBytes • SCSI Supported • UNIBUS Supported • $1,995
The CDU620 series supports 3 1/2" drives with bus transfer rates up to 2Mbps.

■ **CDU620/40**
7 Supported Drive(s) • 40MBytes • SCSI Supported • UNIBUS Supported

■ **CDU620/70**
7 Supported Drive(s) • 70MBytes • SCSI Supported • UNIBUS Supported • $3,195

■ **CQD-300**
2 Supported Drive(s) • 170MBytes • EDSI Supported • Q-bus Supported • $1,250
Features hard or soft sectoring.

CMS Enhancements, Inc.

■ **CQE-30**
2 Supported Drive(s) • 2.8GBytes • Q-bus Supported • $1,020
Q-bus to ESDI disk controller with block mode DMA and DMA throttle that is equipped with a menu-driven, firmware based utility that maintains operations via the system console.

■ **CQS-20**
7 Supported Drive(s) • 4MBytes • SCSI Supported • Q-bus Supported • $924
Q-bus to SCSI disk controller with block mode DMA that is equipped with a menu-driven, firmware based utility that maintains operations via the system console.

■ **CUS-70**
7 Supported Drive(s) • 2.8GBytes • UNIBUS Supported • $1,180
UNIBUS to SCSI disk controller that supports 16KB sector buffering, command queuing, standard SCSI bus arbitration, disconnect, reconnect and all SCSI commands.

DILOG

■ **DQ235**
2 Supported Drive(s) • SMD Supported • Q-bus Supported • $1,800
Features RK06 and RK07 emulation and block mode DMA.

■ **DQ246**
4 Supported Drive(s) • 4GBytes • SMD Supported • Q-bus Supported • $1,950

■ **DQ256**
2 Supported Drive(s) • 6GBytes • SMD Supported • Q-bus Supported • $2,250
The DQ246 and 256 feature queuing for 21 commands, DILOG's dynamic transfer segmentation, and DILOG's universal formatting. Also support SMD-H interfaces.

■ **DU236**
4 Supported Drive(s) • 6GBytes • SMD Supported • UNIBUS Supported • $2,600
Supports SMD-H interfaces.

■ **DU256**
4 Supported Drive(s) • SMD-E Supported • UNIBUS Supported • $2,950
Features DILOG's universal formatting and dynamic transfer segmentation. Also supports SMD-4 interfaces.

■ **DU686**
4 Supported Drive(s) • 4GBytes • ESDI Supported • UNIBUS Supported • $1,950

■ **SQ706A**
7 Supported Drive(s) • 4.5GBytes • SCSI Supported • Q-bus Supported • $1,500
Features a SCSI pass through mode.

■ **SQ716A**
7 Supported Drive(s) • 4.5GBytes • SCSI Supported • Q-bus Supported • $1,675
Features DILOG's universal formatting and block mode DMA.

Emulex Corporation

■ **QD21**
1-4 Supported Drive(s) • ESDI Supported • Q-bus Supported • $1,495

■ **QD24**
1-4 Supported Drive(s) • ESDI Supported • Q-Bus Supported • $1,795
Designed for MicroVAX 3500/3600. Supports ESDI Media Defect List (MDL) in 256- or 512-byte format. Data transfer commands sent to a 15-command buffer and put in cylinder ascending order. QD24 also performs tasks to allow the four ESDI drives to have different capacities and parameters. Self-configureable, or customized drive geometries can be entered into the nonvolatile RAM.

■ **QD33**
2 Supported Drive(s) • SMD-E Supported • Q-bus Supported • $2,200

■ **QD34**
1-4 Supported Drive(s) • SMD-E Supported • Q-bus Supported • $2,495
Emulates the KDA50 and features a switch-enabled adaptive DMA capability which allows the device to monitor the bus for pending DMA requests.

■ **SC7003**
4-8 Supported Drive(s) • SMD Supported • UNIBUS/BIbus Supported • $8,950
The SC7003 also supports CMI and SBI bus and SMD-E device interfaces, respectively.

■ **SC72/BX**
4 Supported Drive(s) • 80MBytes • SMD Supported • PDP-11 Supported • $7,950
Emulates the DEC RH70 with a standard RM03 logical drive.

■ **UD23**
4 Supported Drive(s) • ESDI Supported • UNIBUS Supported • $2,800
Self-configurable, or customized drive geometries may be entered into nonvolatile RAM. Firmware Resident Diagnostics (FRD) allows testing, format, and diagnostic functions to be performed without external media.

■ **UD33**
4 Supported Drive(s) • SMD-E Supported • UNIBUS Supported • $3,500
Self-configureable, or customized drive geometries can be entered into nonvolatile RAM. Firmware Resident Diagnostics (FRD) allows configure, format, and diagnostic functions to be performed without external media.

■ **VMASTER 780**
4 Supported Drive(s) • SMD Supported • UNIBUS Supported • $8,550
This VMASTER 780 system chassis houses two MASSBUS controllers that interface to the SBI.

■ **VMASTER 783**
4 Supported Drive(s) • UNIBUS Supported • $13,000
This VMASTER 783 system chassis houses one MASSBUS controller that interfaces to the SBI.

KOM, Inc.

■ **Optifile II**
800MBytes • SCSI Supported • UNIBUS/Q-bus Supported • $12,000
The Optifile II (WORM) is designed to support 5.25" or 12" drives and also includes the OPTIFILE software kit. Also features a dual size card that supports both optical and magnetic drives.

■ **Optifile III**
800MBytes • SCSI Supported • UNIBUS/Q-bus Supported
The Optifile III (WORM) is designed to support 5.25", 12", and 14" drives and also includes the OPTIFILE software kit. Also features a dual size card that supports both optical and magnetic drives.

Lago Systems

■ **LS/100E**
4 Supported Drive(s) • 2.2GBytes • ESDI Supported • $3,000
Used in Lago's disk adapter to interface ESDI disk drives to DEC DSA disk controllers. The LS/100 attached drives are DEC RA compatible.

■ **LS/100M**
1 Supported Drive(s) • 1.7GBytes • SMD Supported • $1,500+
Used in Lago's disk adapter to interface SMD disk drives to DEC DSA disk controllers. The LS/100 attached drives are DEC RA compatible.

■ **LS/100X**
1 Supported Drive(s) • 1.7GBytes • SMD Supported • $1,500+
Used in Lago's disk adapter to interface SMD disk drives to DEC DSA disk controllers. The LS/100 attached drives are DEC RA compatible.

LAGO SYSTEMS

LAGO Systems



■ **LS/100**
4 Supported Drive(s) • 13.5GBytes • ESDI Supported • $6,500+
Lago Systems' LS/100 Disk Adapter links industry standard SMD and ESDI disk drives to DEC VAX systems. With the LS/100, disk storage arrays using both reliable, large capacity SMD disk drives and low-cost ESDI drives are able to connect to VAXBI and VAXcluster systems. The LS/100 series attached disk drives are compatible with DEC RAxx drives, requiring no changes to systems or application software. Lago Systems also offers the LS/100E, LS/100M, and the LS/100X. The LS/100E is used in Lago's LS/100 disk adapter to interface ESDI disk drives to DEC DSA disk controllers. The LS/100M and LS/100X are used in Lago's LS/100 disk adapter to interface SMD disk drives to DSA disk controllers.

MDB SYSTEMS, INC.

■ **MDB-DK11-RM**
SMD Supported • UNIBUS Supported • $3,900

■ **MDB-DK11-RP**
SMD Supported • UNIBUS Supported • $3,900

MEMORY SCIENCES CORPORATION

■ **FASTOR**
64 Supported Drive(s) • 49GBytes • UNIBUS/Q-bus/BIbus Supported • $12,500
FASTOR is a VMEbus based computer that interfaces to any computer operating under a multitasking operating system.

MICRO TECHNOLOGY, INC.

■ **MQD-19**
4 Supported Drive(s) • 2480MBytes • ESDI Supported • Q-bus Supported • $1,850
The MQD-19 interacts with the microprocessor in the Intercept removable chassis and the DEC host CPU operating system. The MQD-19 interfaces with up to four disk drives for a total on-line capacity of 2480MB. Also supports dynamic disk shadowing.

■ **MQDX4**
4 Supported Drive(s) • 800MBytes • ESDI Supported • Q-bus Supported • $1,850
The MQDX4 includes an on-board monitor and utility program and sets drive speed and emulation automatically. It is the only dual size Q-bus controller that supports three different types of drive interfaces. Also supports ST506 interfaces.

MINI COMPUTER TECHNOLOGY

■ **MCT 1300**
2 Supported Drive(s)
Interfaces one or two SMD or SMD-E disk drives with data transfer rates up to 2Mbps.

■ **SMV-15**
2 Supported Drive(s) • 1.2GBytes • SMD Supported

PIONEER COMMUNICATIONS OF AMERICA, INC.

■ **DD-C5001**
4 Supported Drive(s) • SCSI Supported
Designed to be used in conjunction with Pioneer's optical disk drive (DD-M5001). Also supports IPI interfaces.

QUALOGY

■ **QLC-1000**
2.4GBytes • SCSI Supported • Q-bus Supported • $1,995
Optical disk controller allows partitioning optical disks into multiple volumes and emulates a DEC TK-50 1/2" magnetic tape.

SCIENTIFIC MICRO SYSTEMS, INC.

■ **SMS 0108**
2 Supported Drive(s) • ESDI Supported • Q-bus Supported
Features advanced VLSI technology and also supports .25" cartridge tape drives, and 5.25" and 8" floppy disk drives and includes a resident SENSE monitor for rapid systems configuration and testing. Also supports ST506 interfaces.

■ **SMS 0109**
1 Supported Drive(s) • ESDI Supported • Q-bus Supported
Supports 5.25" or 12" WORM optical disks. Features advanced VLSI technology and also supports two Winchester and two floppy disk drives and includes a resident SENSE monitor for rapid systems configuration and testing. Also supports ST506 interfaces.

SIGMA INFORMATION SYSTEMS

■ **SDC-RQD11-D**
2 Supported Drive(s) • 290MBytes • ST506 Supported • Q-bus Supported • $701
Features block mode DMA, a front panel/maintenance connector and self-diagnostics.

■ **SDC-RQD11-DESDI**
4 Supported Drive(s) • 3.04GBytes • ESDI Supported • Q-bus Supported • $778
Interfaces two ESDI devices to a Q-bus architecture and features block mode DMA, drive shadowing, media defect management, and statistics recording.

■ **SDC-RQD11-EC**
4 Supported Drive(s) • 3.04GBytes • ESDI Supported • Q-bus Supported • $1,357
Features block mode DMA, a front panel/maintenance connector, self-diagnostics, drive shadowing, a 1MB cache memory, and statistics recording.

■ **SDC-RQD11-RLL**
2 Supported Drive(s) • ST412 Supported • Q-bus Supported • $744
Features block mode DMA, a front panel/maintenance connector, and self-diagnostics.

■ **SDC-RQD11-SC**
2 Supported Drive(s) • 4.86Bytes • SMD Supported • Q-bus Supported • $1,357
Features block mode DMA and 1MB cache with parity.

■ **SDC-RQD11-SCH**
2 Supported Drive(s) • 2.46Bytes • SMD Supported • Q-bus Supported • $1,651
Features block mode DMA, 1MB cache with parity, self-diagnostics, drive shadowing, a front panel/maintenance connector, and statistics recording.

■ **SDC-RQD11-SCSI**
7 Supported Drive(s) • SCSI Supported • Q-bus Supported • $1,211
Interfaces SCSI devices to a Q-bus architecture and features block mode DMA, drive shadowing, media defect management, and statistics recording.

■ **ST-412/RLL**
2 Supported Drive(s) • $744
Controller interfaces two ST-412 drives to a MicroVAX or LSI-11 system. Menu-driven, firmware based utilities permit interactive disk formatting and maintenance operations via the system console.

WEBSTER COMPUTER CORPORATION

■ **SRQD11-B**
2 Supported Drive(s) • 566MBytes • ST506 Supported • Q-bus Supported
The SRQD11-B is an MSCP ST506/ST412 Winchester disk controller that features WOMBAT comprehensive on-board interactive formatting and diagnostic firmware, block mode DMA, command queuing, seek optimization and overlap.

■ **WQESD**
4 Supported Drive(s) • 1.7GBytes • ESDI Supported • Q-bus Supported
The WQESD is a 1MB cached MSCP ESDI Winchester disk controller that features WOMBAT comprehensive on-board interactive formatting and diagnostic firmware, programmable look ahead, drive shadowing and seek optimization.

■ **WQSMD**
2 Supported Drive(s) • 1.17GBytes • SMD Supported • Q-bus Supported
The WQSMD is a 1MB cached MSCP SMD Winchester disk controller that supports Standard, Modified, Enhanced, and Extended SMD. Features WOMBAT on-board interactive formatting and diagnostics, and progammable look ahead.

■ **WUESD**
4 Supported Drive(s) • 1.7GBytes • ESDI Supported • UNIBUS Supported • $2,800
The WUESD is a 1MB cached MSCP ESDI Winchester disk controller that features WOMBAT comprehensive on-board interactive formatting and diagnostic firmware, programmable look ahead, drive shadowing, and seek optimization.

■ **WUSMD**
4 Supported Drive(s) • 1.17GBytes • SMD Supported • UNIBUS Supported • $3,020
The WUSMD is a 1MB cached MSCP SMD Winchester disk controller that supports Standard, Modified, Enhanced, and Extended SMD. Features WOMBAT on-board interactive formatting and diagnostics, and programmable look ahead.

WESPERCORP

■ **DC231A**
4 Supported Drive(s) • SMD Supported • UNIBUS Supported • $3,150

WINCHESTER SYSTEMS, INC.

■ **Converter Board**
UNIBUS Supported
Q-bus to UNIBUS converter board which allows the use of Q-bus peripherals on UNIBUS machines.

■ **MSCP/ESDI**
4 Supported Drive(s) • ESDI Supported • Q-bus Supported

■ **MSCP/ESDI**
8 Supported Drive(s) • SCSI Supported • Q-bus Supported

■ **MSCP/ST506**
4 Supported Drive(s) • ST506 Supported • Q-bus Supported

■ **RL02/ST506**
4 Supported Drive(s) • ST506 Supported • Q-bus Supported
Emulates DEC RL02/RL01 disk subsystems.

DISK DRIVES

ALPHA DATA, INC.

■ **Atlas 520**
ESMD Supported • 520MBytes
Reads and writes a full 2.25MB data block while all heads remain stationary. Reduces queuing time as the arrival rate exceeds 45 requests per second. Heads are automatically retracted and locked up during power-off modes.

■ **Atlas 520-8R**
SMD Supported • 520MBytes
Same as the Atlas 520. This model is a parallel transfer machine that features a proprietary media management system, a 16Mbps burst transfer rate, and a 15.2Mbps continuous transfer rate.

AMERICAN DIGITAL SYSTEMS, INC.

■ **Series 5**
5.25" • ESDI Supported • 152MBytes

■ **Series 5**
5.25" • ESDI Supported • 303MBytes

■ **Series 5**
5.25" • ESDI Supported • 369MBytes

■ **Series 5**
5.25" • ESDI Supported • 455MBytes

■ **Series 5**
5.25" • ESDI Supported • 607MBytes

■ **Series 5**
5.25" • ESDI Supported • 737MBytes

■ **Series 5**
5.25" • ESDI Supported • 1.1GByte

■ **Series 5**
5.25" • ESDI Supported • 1.5GBytes

■ **Series 8**
8" • SMD Supported • 721MBytes

■ **Series 8**
8" • SMD Supported • 1.4GBytes

■ **Series 8**
8" • SMD Supported • 2.2GBytes

■ **Series 8**
8" • SMD Supported • 2.88GBytes
MasterDisk disk drive systems, available in the above configurations, dramatically improve performance on all VAXs and MicroVAXs. For high-speed 8mm tape backup, MasterTape II is available.

Century Data Systems

■ **14404**
5.25" • ESDI/SCSI Supported • 114MBytes • $1,500

■ **14404**
5.25" • ESDI/SCSI Supported • 140MBytes • $1,700

■ **14404**
5.25" • ESDI/SCSI Supported • 170MBytes • $2,000

■ **AMS200**
14" • 174MBytes
Upgradable to the AMS 300.

■ **AMS300**
14" • 256MBytes
The AMS 300 features a direct connection into the MASSBUS architecture.

■ **C12000**
ESMD Supported • 1.2GBytes

■ **C2400**
SMD Supported • 344MBytes

■ **C2476**
ESMD Supported • 474MBytes

■ **C2600**
ESMD Supported • 515MBytes

■ **C2800**
ESMD Supported • 696MBytes
The Cxxxx Series includes a power supply, dual access, and self-diagnostics.

■ **DS21000**
8" • 1GByte

■ **DS21200**
8" • 1GByte

■ **DS21500**
8" • 1.3GBytes

■ **DS2600**
8" • $14,500

■ **DS2800**
8" • 716MBytes • $17,100

■ **DS300**
14" • 256MBytes

■ **DS400**
14" • 384MBytes
The DS Series features plug compatibility with DEC's RA-series disk drives.

■ **T2801**
8" • MSMD Supported • 692MBytes • $16,400
The T2801 model is compatible with the Fujitsu M2360A and is equipped with a one channel operation. The quoted storage value reflects an unformatted capacity.

■ **T472**
5.25" • ESMD Supported • 472MBytes • $12,400

EMC Corporation

■ **MRA 1200**
8" • 1.2GBytes

■ **MRA 1600**
8" • 1.6GBytes

■ **MRA 1800**
8" • 1.9GBytes

■ **MRA 2400**
8" • 2.5GBytes

■ **MRA 3200**
8" • 3.3GBytes

■ **MRA 600**
8" • 622MBytes

■ **MRA 800**
8" • 825MBytes
The Maxport Series is fully DSA/MSCP compatible and is completely hardware, software, and diagnostic compatible with DEC's HSC 50, HSC 70, KDA 50, KDB 50, and UDA disk controllers. Dual-channel capabilities and automatic failover are standard. Suitable for any VAXcluster, VAXBI, Q-bus, or UNIBUS system.

Exsys Storage Systems

■ **RACE-380**
5.25" • ESDI Supported • 313MBytes

■ **RACE-760**
5.25" • ESDI Supported • 587MBytes
The RACE-380 and -760 support the KDB50 and UDA50 controllers for the BI and UNIBUS architectures, respectively. Also support the HSC50 and HSC70 VAXcluster controllers.

First Computer Corporation

■ **DSSVME1K**
10.5" • 474MBytes • $38,625

■ **DSSVMEEK**
10.5" • 948MBytes • $51,850

■ **DSSVMEEQ**
10.5" • 948MBytes • $46,325

■ **DSSVMEXQ**
10.5" • 474MBytes • $33,125

■ **DSSVSE1K**
10.5" • 474MBytes • $44,150

■ **DSSVSEEK**
10.5" • 948MBytes • $57,300

■ **DSSVSEEQ**
10.5" • 948MBytes • $51,750

■ **DSSVSEXQ**
10.5" • 474MBytes • $38,550

■ **DSSVSEXQ**
10.5" • 474MBytes • $38,550

■ **DSSVUE1K**
10.5" • 474MBytes • $33,475

■ **DSSVUEEK**
10.5" • 948MBytes • $46,700

■ **DSSVUEEQ**
10.5" • 948MBytes • $41,175

■ **DSSVUEXQ**
10.5" • 474MBytes • $29,950

■ **VM23514773**
10.5" • 474MBytes • $23,675

■ **VU23514782**
10.5" • 474MBytes • $18,275
All of the above quoted storage values reflect unformatted capacities.

Fujitsu America, Inc.

■ **M2246E/S**
5.25" • ESDI Supported • 389MBytes
The storage and track values reflect unformatted capacities. The M2246E/S also supports an embedded SCSI with a transfer rate of 2.5Mbps.

■ **M2249E/S**
5.25" • ESDI/SCSI Supported • 389MBytes
The storage and track values reflect unformatted capacities. This model also supports an embedded SCSI with a transfer rate of 4Mbps.

■ **M2263E/S**
5.25" • ESDI/SCSI Supported • 778MBytes

■ **M2333K/KS**
8" • HSMD/SCSI Supported • 168MBytes
The above data transfer value reflects an asynchronous rate; the synchronous data transfer rate is 2.458Mbps.

■ **M2333P**
8" • IPI-2 Supported • 337MBytes

■ **M2344K/KS**
8" • HSMD/SCSI Supported • 690MBytes
The storage and track values reflect unformatted capacities.

■ **M2350**
10.5" • MSMD Supported • 474MBytes
This model is equipped with 1, 4, or 5 channel operation.

■ **M2360**
10.5" • HSMD Supported • 689MBytes
This model is equipped with 1, 4, or 5 channel operation.

■ **M2372K/KS**
8" • HSMD/SCSI Supported • 823MBytes

■ **M2380A**
8" • SMD-E Supported • 1GByte
This model is equipped with 1, 4, or 5 channel operation.

■ **M2382K/KS**
8" • ESMD/SCSI Supported • 1GByte

■ **M2382P**
8" • IPI-2 Supported • 1GByte

■ **M2392K**
8" • SMD Supported • 2.02GBytes
The storage and track values reflect unformatted capacities.

Imprimis Technology, Inc.

■ **FSD 9715-300**
9" • SMD Supported • 315MBytes

■ **FSD 9715-340**
9" • SMD Supported • 344MBytes
The FSD Series features half-rack rigid disks offering high-capacity, high-speed storage, supporting fixed or variable soft sectoring. The MTBF life with power supply is 24,000 hours. Both start and stop performance times are 35 seconds. In addition, the interface transfer rates are 9.67MHz.

■ **FSD 9715-500**
9" • SMD/SMD-E Supported • 515MBytes
The FSD is a half-rack rigid disk drive offering high-capacity, high-speed storage, supporting fixed or variable soft sectoring. The MTBF life with power supply is 24,000 hours. Both start and stop performance times are 35 seconds. In addition, the interface transfer rates are 14.52MHz. Also supports the IPI-2 interface.

■ **RSD 9710**
9" • SMD Supported • 82.9MBytes
The RSD is an ideal companion for the FSD as the two half-rack drives mount side by side in a standard 19" rack. It provides back-up for fixed disk, portability for programs and secure storage for sensitive data. When removed, the head access door closes automatically.

■ **Sabre 9720-1123**
5.25" • SMD-E Supported • 1.1GByte
Features a 256KB buffer with Read Look-Ahead capabilities. Employs ZBR (Zone Bit Recording), Imprimis' patented technique of variable track capacity recording that permits more capacity and faster average data transfer rates than conventional recording techniques.

■ **Sabre 9720-1230**
8" • SCSI/IPI-2 Supported • 1.23MBytes
Also supports the SMD-E interface.

■ **Sabre 9720-368**
8" • SCSI Supported • 368MBytes
Also supports the SMD-O/E interface.

■ **Sabre 9720-500**
8" • SCSI Supported • 500MBytes
Also supports the SMD-O/E interface.

■ **Sabre 9720-736**
8" • SCSI Supported • 741MBytes
Also supports the SMD-O/E interface.

■ **Sabre 9720-850**
8" • SCSI/SMD Supported • 851MBytes

■ **Swift 94351**
3.5" • ESDI Supported • 172MBytes • $9,395

■ **Swift 94356**
3.5" • ESDI Supported • 177MBytes • $1,295
The quoted prices of the Swift Series reflect a quantity purchase of 2500 drives or more.

■ **Wren 9416X**
5.25" • ESDI/SCSI Supported • 155MBytes • $1,120
The ESDI supports serial modes and both hard and soft sectors. The SCSI features a burst transfer rate of 1.25Mbps and is equipped with either a standard 8KB or optional 32KB data buffer. This interface also features a 48-bit ECC, capable of correcting one burst per sector up to 11 bits. With the SCSI, formatted 512 or 1024 bytes per sector provides 155 or 160MB of storage capacity, respectively. The quoted price reflects a quantity purchase of 2500 drives or more.

■ **Wren 94181-385H**
5.25" • SCSI Supported • 385MBytes
The Wren Runner is a high-capacity drive employing ZBR, Imprimis' patented Zone Bit Recording technique of variable track capacity recording.

■ **Wren 94191**
5.25" • SCSI Supported • 766MBytes
Ideal for multiuser, multitasking systems

and local area networks with file server requirements.

■ **Wren 94196**
5.25" • ESDI Supported • 766MBytes
Ideal for multiuser, multitasking systems and local area networks with file server requirements.

■ **Wren 94211**
5.25" • SCSI/ESDI Supported • 91MBytes • $795
The SCSI controller has a data buffer for increased performance and has a burst transfer rate of 1.25Mbps. The ESDI supports serial mode and the (1) address marks or (2) sector pulse sector modes. The quoted price reflects a quantity purchase of 2500 drives or more.

■ **Wren 94216**
5.25" • SCSI/ESDI Supported • 91MBytes • $795
The SCSI controller has a data buffer for increased performance and has a burst transfer rate of 1.25Mbps. The ESDI supports serial mode and the (1) address marks or (2) sector pulse sector modes. The quoted price reflects a quantity purchase of 2500 drives or more.

■ **Wren 94246-182**
5.25" • ESDI Supported • 182MBytes

■ **Wren 94246-383**
5.25" • ESDI Supported • 182MBytes
The Wren 94246-xxx drives feature patented, lifetime environmental control systems.

■ **Wren 94601-12G**
5.25" • SCSI Supported • 1.2GBytes
Features a 256KB buffer with Read Look-Ahead capabilities. Employs ZBR (Zone Bit Recording), Imprimis' patented technique of variable track capacity recording that permits more capacity and faster average data transfer rates than conventional recording techniques.

■ **Wren IV 94171**
5.25" • SCSI Supported • 376MBytes • $1,645
The SCSI interface supports a one-to-one interleave and features a 48-bit ECC. The asynchronous transfer rate is 1.50Mbps. The quoted price reflects a quantity purchase of 2500 drives or more.

■ **WrenV 94171**
5.25" • SCSI Supported • 344MBytes • $1,895
A full-height disk drive that features a synchronous data transfer rate of 4Mbps while the asynchronous rate is 2Mbps. The quoted price reflects a quantity purchase of 2500 drives or more.

■ **WrenV 94181**
5.25" • SCSI Supported • 702MBytes • $2,195
A full-height disk drive that features an asynchronous data transfer rate of 4Mbps while the asynchronous rate is 1.25Mbps. The quoted price reflects a quantity purchase of 2500 drives or more.

■ **WrenV 94186-383**
5.25" • ESDI Supported • 383MBytes • $1,795
The quoted storage value reflects an unformatted capacity and the quoted price reflects a quantity purchase of 2500 drives or more.

■ **WrenV 94186-383H**
5.25" • ESDI Supported • 383MBytes • $1,795
The quoted storage value reflects an unformatted capacity and the quoted price reflects a quantity purchase of 2500 drives or more.

■ **WrenV 94186-442**
5.25" • ESDI Supported • 442MBytes • $1,995
A full-height disk drive that features a synchronous data transfer rate of 4Mbps while the asynchronous rate is 1.25Mbps. The quoted price reflects a quantity purchase of 2500 drives or more and the quoted storage value reflects an unformatted capacity.

■ **WrenV HH94221-209**
5.25" • SCSI Supported • 209MBytes • $1,225
A half-height disk drive that features a synchronous data transfer rate of 4Mbps while the asynchronous rate is 1.25Mbps. The quoted price reflects a quantity purchase of 2500 drives or more.

■ **XMD III**
14" • SMD-E Supported • 1.3GBytes
The SMD-E interface features a 24MHz data transfer rate, rotational position sensing, and extended cylinder addressing. The IPI provides a growth plan for future products which require transfer rates up to 10Mbps. On-board diagnostics simplify trouble-shooting without external test equipment. Also supports the IPI-2 interface.

Maxtor Corporation

■ **LXT-100S**
3.5" • SCSI Supported • 96MBytes

■ **LXT-200**
3.5" • SCSI Supported • 202MBytes

■ **XT 1085**
5.25" • ST506 Supported • 71.3MBytes

■ **XT 1140**
5.25" • ST506 Supported • 120MBytes

■ **XT-1120R**
5.25" • ST506 Supported • 104MBytes

■ **XT-1240R**
5.25" • ST506 Supported • 196MBytes

■ **XT-2190**
5.25" • ST506 Supported • 160MBytes

■ **XT-4170E**
5.25" • ESDI Supported • 158MBytes
Supports both hard and soft sectoring.

■ **XT-4170S**
5.25" • SCSI Supported • 158MBytes

■ **XT-4380E**
5.25" • ESDI Supported • 340MBytes

■ **XT-4380S**
5.25" • SCSI Supported • 340MBytes

■ **XT-8380E**
5.25" • ESDI Supported • 360MBytes
The XT-4380E, -4380S, and 8380E support both hard and soft sectoring.

■ **XT-8380S**
5.25" • SCSI Supported • 360MBytes

■ **XT-8760E**
5.25" • ESDI Supported • 670MBytes

■ **XT-8760S**
5.25" • SCSI Supported • 676MBytes
Maxtor Corporation supplies OEM products. Please consult factory for interface information.

Micropolis Corporation

■ **1323**
5.25" • ST506/412 Supported • 35MBytes

■ **1323A**
5.25" • ST506/412 Supported • 44MBytes

■ **1324**
5.25" • ST506/412 Supported • 53MBytes

■ **1324A**
5.25" • ST506/412 Supported • 62MBytes

■ **1325**
5.25" • ST506/412 Supported • 71MBytes

■ **1353**
5.25" • ST506/412 Supported • 75MBytes

■ **1353A**
5.25" • ST506/412 Supported • 94MBytes

■ **1354**
5.25" • ST506/412 Supported • 113MBytes

■ **1354A**
5.25" • ST506/412 Supported • 132MBytes

■ **1355**
5.25" • ST506/412 Supported • 150MBytes

■ **1373**
5.25" • SCSI Supported • 72MBytes

■ **1373A**
5.25" • SCSI Supported • 91MBytes

■ **1374**
5.25" • SCSI Supported • 109MBytes

■ **1374A**
5.25" • SCSI Supported • 127MBytes

■ **1375**
5.25" • SCSI Supported • 145MBytes
The 137x Series features SCSI CCS compatibility.

■ **1516-10S**
5.25" • ESDI Supported • 678MBytes

■ **1517-13**
5.25" • ESDI Supported • 922MBytes

■ **1518-14**
5.25" • ESDI Supported • 993MBytes

■ **1518-15**
5.25" • ESDI Supported • 1064MBytes

■ **1556-11**
5.25" • ESDI Supported • 248MBytes

■ **1557-12**
5.25" • ESDI Supported • 270MBytes

■ **1557-13**
5.25" • ESDI Supported • 293MBytes

■ **1558-14**
5.25" • ESDI Supported • 315MBytes

■ **1558-15**
5.25" • ESDI Supported • 338MBytes

■ **1566-11**
5.25" • ESDI Supported • 496MBytes

■ **1567-12**
5.25" • ESDI Supported • 541MBytes

■ **1567-13**
5.25" • ESDI Supported • 586MBytes

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An Electrocomponents Company

■ **1568-14**
5.25" • ESDI Supported • 631MBytes

■ **1568-15**
5.25" • ESDI Supported • 676MBytes

■ **1576-11**
5.25" • SCSI Supported • 243MBytes

■ **1577-12**
5.25" • SCSI Supported • 265MBytes

■ **1577-13**
5.25" • SCSI Supported • 287MBytes

■ **1578-14**
5.25" • SCSI Supported • 309MBytes

■ **1578-15**
5.25" • SCSI Supported • 331MBytes
The 157x Series features buffer sizes of 64KB with parity.

■ **1586-11**
5.25" • SCSI Supported • 490MBytes

■ **1587-12**
5.25" • SCSI Supported • 535MBytes

■ **1587-13**
5.25" • SCSI Supported • 579MBytes

■ **1588-14**
5.25" • SCSI Supported • 624MBytes

■ **1588-15**
5.25" • SCSI Supported • 668MBytes
The 158x Series features SCSI CCS compatibility as well buffer sizes of 64KB with parity.

■ **1596-10S**
5.25" • SCSI Supported • 668MBytes

■ **1597-13**
5.25" • SCSI Supported • 909MBytes

■ **1598-14**
5.25" • SCSI Supported • 979MBytes

■ **1598-15**
5.25" • SCSI Supported • 1049MBytes
The 159x Series features buffer sizes of 64KB with parity.

■ **1653-4**
5.25" • ESDI Supported • 92MBytes

■ **1653-5**
5.25" • ESDI Supported • 115MBytes

■ **1654-6**
5.25" • ESDI Supported • 138MBytes

■ **1654-7**
5.25" • ESDI Supported • 161MBytes

■ **1663-4**
5.25" • ESDI Supported • 197MBytes

■ **1663-4**
5.25" • ESDI Supported • 246MBytes

■ **1664-6**
5.25" • ESDI Supported • 295MBytes

■ **1664-7**
5.25" • ESDI Supported • 345MBytes
The 166x Series features half height drives.

■ **1673-4**
5.25" • SCSI Supported • 90MBytes

■ **1673-5**
5.25" • SCSI Supported • 112MBytes

■ **1674-6**
5.25" • SCSI Supported • 135MBytes
The 167x Series features 64KB buffer sizes with parity in half-height drives.

■ **1683-4**
5.25" • SCSI Supported • 193MBytes

■ **1683-5**
5.25" • SCSI Supported • 242MBytes

■ **1684-6**
5.25" • SCSI Supported • 291MBytes

■ **1684-7**
5.25" • SCSI Supported • 340MBytes
The 168x Series features half height drives with SCSI CCS compatibility and 64KB buffer sizes with parity.

■ **1773-5**
3.5" • SCSI Supported • 112MBytes

■ **1774-6**
3.5" • SCSI Supported • 135MBytes

■ **1774-7**
3.5" • SCSI Supported • 157MBytes

■ **1775-8**
3.5" • SCSI Supported • 180MBytes

■ **1775-9**
3.5" • SCSI Supported • 202MBytes
The 177x Series features 32KB buffer sizes with parity, and SCSI CCS compatibility.

Miltope Corporation

■ **RDS-1501**
5.25" • ESDI/SCSI* Supported • 18.5MBytes • $21,850

■ **RDS-1502**
5.25" • ESDI/SCSI* Supported • 37MBytes • $37,900

■ **RDS-1721**
5.25" • ESDI/SCSI* Supported • 160.8MBytes • $29,325

■ **RDS-1722**
5.25" • ESDI/SCSI* Supported • 344MBytes • $48,875

■ **RDS-1724**
5.25" • ESDI/SCSI* Supported • 642.2MBytes • $87,400

■ **RDS-2342**
8" • SMD Supported • 361.2MBytes • $85,100

■ **RDS-2344**
8" • SMD Supported • 722MBytes • $96,000

■ **RDS-3401**
3.5" • ESDI/SCSI* Supported • 30MBytes • $21,900

■ **RDS-3402**
3.5" • ESDI/SCSI* Supported • 60MBytes • $23,000
The RDS Series is designed for mass data storage and retrieval applications in military computer systems and is MIL qualified.

Ramtek Corporation

■ **ImageDisk**
560MBytes • $65,999
Designed to be used with Ramtek's 4660 high resolution imaging display system. Stores up to 16GB of data and communicates with the CPU and single or multiple imaging display systems to provide links for high-speed image and data transfers.

Sony Corporation of America

■ **MP-F52W**
3.5" • 1MByte

■ **MP-F52W00D**
3.5" • 1MByte

■ **MP-F53W**
3.5" • 1MByte

■ **MP-F53W00D**
3.5" • 1MByte

■ **OA D32V**
3.5" • .5MBytes

■ **OA D33V**
3.5" • .5MBytes

■ **OA-D32W**
3.5" • 1MByte

Summus Computer Systems

■ **SUM-11**

System Industries

■ **6100-22**
14" • 160MBytes

■ **6100-51**
10.5" • 474MBytes

■ **6100-66**
256MBytes

■ **9722**
8" • 134MBytes

■ **9733**
5.25" • 256MBytes
The 9733 disk drive features advanced Winchester contact start/stop heads to eliminate moving parts during loading and unloading and a head IC design to shield against electrical noise.

■ **9751**
10.5" • 414MBytes • $16,000+

■ **9751C**
10.5 • SMD Supported • 360MBytes • $14,500

■ **9761**
10.5" • HSMD Supported • 512MBytes • $19,000+

■ **9761C**
10.5" • HSMD Supported • 530MBytes • $16,500

■ **9766**
256MBytes

■ **9798**
10.5" • 512MBytes • $16,000+

■ **9900**
8" • 300MBytes

■ **9900-22**
8" • 160MBytes

■ **9900-23**
8" • 330MBytes

■ **9920-51**
10.5" • 474MBytes

■ **9920-66**
8" • 300MBytes

■ **9920-98**
14" • 670MBytes

■ **SI56**
5.25" • 338MBytes
The SI56 may be configured as either a hard or soft sectored drive and is available in subsystems utilizing the QDA4E caching controller or the C-Series storage arrays that provide full DSA-compatibility.

■ **SI57**
5.25" • 601MBytes • $19,000+

■ **SI83C**
8" • HSMD Supported • 522MBytes • $16,500

■ **SI85 C**
8" • 638.5MBytes

■ **SI93**
906MBytes

■ **SI93C**
9" • 844MBytes
The SI93C features a dual supported spindle for greater rigidity and read-write accuracy.

■ **SI95 C**
3.4GBytes
These disk drives are compatible with any VAXcluster, VAX, or MicroVAX system. The SI95C is offered in 2, 4, 6, 8 drive configurations with formatted capacities of 3.4GB, 6.9GB, 10.3GB, 13.7GB.

System Technology Associates

■ **RA 8-1100**
5.25" • 1.1GByte
A GIGA-RIG tower cabinet is available which house up to four RA 8-1100 drives, holding over 4GB of RA storage.

■ **RA 8-2100**
5.25" • 2.1GByte
The GIGA-RIG cabinet houses up to 12 RA 8-2100 drives, holding over 20GB of RA storage.

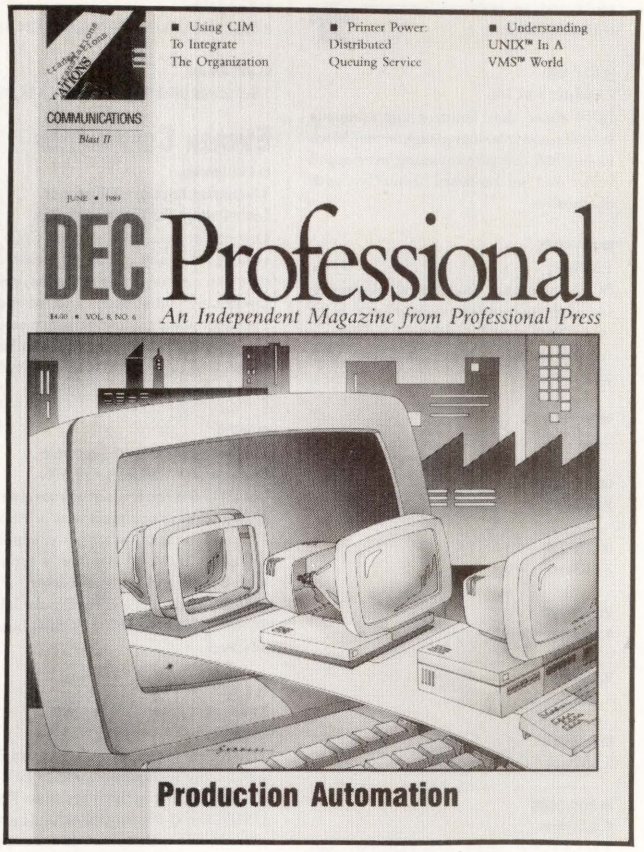
■ **RA 8-550**
5.25" • 550MBytes
Available with a GIGA-RIG cabinet that houses up to four RA 8-550 drives holding nearly 2.2GB of RA storage.

Talaris Systems Inc.

■ **9032 Disk**
3.5" • SCSI Supported • 32MBytes • $950
A storage disk loaded with Talaris fonts to increase the productivity of the Talaris printstation. This disk extends the resident memory of a printstation.

Tech Labs

■ **WL-84-D**
8" • SMD Supported • 84MBytes • $4,514
The WL-84-D is also available with a dual port option allowing two separate host controllers to share access to the same storage module string.



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Toshiba America

■ **MK-355FA**
5.25" • 380MBytes • $1,815

■ **MK-355FB**
5.25" • 380MBytes • $1,965

■ **MK-358FA**
5.25" • 760MBytes • $2,495

■ **MK-358FB**
5.25" • SCSI Supported • 760MBytes • $2,645
The MK Series features hybrid servo design for high data integrity and reduced susceptability to environmental extremes.

U. S. Design Corporation

■ **CSS-800-870**
8" • 59MBytes • $7,895

Winchester Systems, Inc.

■ **Half-Height Winchester**
ST506 Supported • 100MBytes
Half height drive.

■ **High Speed Winchester**
ESDI Supported • 760MBytes
Full height drive.

■ **Removable Cartridge**
ST506 Supported • 26MBytes
Full height drive.

■ **Removable Cartridge**
ST506 Supported • 40MBytes
Half height drive.

■ **Standard Winchester**
ST506 Supported • 190MBytes
Full height drive.

Disk Subsystems

American Data Systems Marketing

■ **SMD**
2.7GBytes • $5,000+

American Digital Systems, Inc.

■ **MasterDisk Mxxx51**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 607MBytes • $6,450+

■ **MasterDisk Mxxx52**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 1.56GBytes • $9,350+

■ **MasterDisk Mxxx55**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 2.708GBytes • $10,700+

■ **MasterDisk Mxxx81**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 2.93GBytes • $16,750+

■ **MasterDisk Mxxx82**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 4.22GBytes • $19,250

■ **MasterDisk SDI MSExx82**
1-30 Supported Drive(s) • 1 Supported Controller(s) • 2.927GBytes • $24,640+

■ **MasterDisk/SDI MSExx55**
1-40 Supported Drive(s) • 1 Supported Controller(s) • 20.7GBytes • $15,640+
The MasterDisk Series dramatically improves performance on all VAXs and MicroVAXs. For high speed 8mm tape backup, the MasterTape II is available.

Aptec Computer Systems, Inc.

■ **DSK-1412**
1 Supported Drive(s) • 3.6GBytes
The DSK-1412 is classified as a non-striped disk and is designed to support Aptec's IOC-200 and IOC-24 specialized systems.

Aquidneck Systems International

■ **OAS 100**
$14,500

Aviv Corporation

■ **APEX**
4 Supported Drive(s) • 1 Supported Controller(s) • 2.5GBytes • $2,800+

■ **DFS 61X**
4 Supported Drive(s) • 1 Supported Controller(s) • 2.2GBytes • $8,500+

■ **DFS 62X**
4 Supported Drive(s) • 2 Supported Controller(s) • 2.2GBytes • $15,000+

■ **DFS 660X-X**
12 Supported Drive(s) • 12 Supported Controller(s) • 7.8GBytes • $28,000+

■ **DFS 680X-X**
12 Supported Drive(s) • 12 Supported Controller(s) • 10.2GBytes • $32,000+

■ **DFS 817-9720/500**
4 Supported Drive(s) • 1 Supported Controller(s) • 1.7GBytes • $9,000

■ **Summit IV**
1 Supported Controller(s) • 2.8GBytes • $7,860+

■ **Summit V**
1 Supported Controller(s) • 4.2GBytes • $10,275+
Aviv Corporation's subsystems are compatible with all DEC operating systems that support the MSCP protocol.

CMD Technology, Inc.

■ **CDU-620 Series**
7 Supported Drive(s) • 400MBytes • $1,995+
Used with PDP-11 and VAX 700 Series CPUs. Mounts directly on the backplane and provides hard disk storage without external power supply. Features on-board auto and utility bootstrapping, on-board formatting and bad block replacement.

■ **CQD-120 Series**
7 Supported Drive(s) • 200MBytes • $1,495+
Used with LSI-11, MicroPDP-11 and MicroVAX II CPUs. Mounts directly on the backplane and provides hard disk storage. Features on-board auto and utility bootstrapping, on-board formatting and bad block replacement.

CMS Enhancements, Inc.

■ **CPF-155S**
1.3GBytes
SCSI drive that features simultaneous transfer, non-interleaved disk format, block mode DMA, command queuing, overlapped seeks and an on-board formatter with diagnostics.

■ **CPF-180**
2.6GBytes • $4,380
ESDI drive that features simultaneous transfer, non-interleaved disk format, block mode DMA, command queuing, overlapped seeks and an on-board formatter with diagnostics.

■ **CPF-300S**
1.3GBytes
SCSI drive that features simultaneous transfer, non-interleaved disk format, block mode DMA, command queuing, overlapped seeks and an on-board formatter with diagnostics.

■ **CPF-380**
2.6GBytes

■ **CPF-383H**
2.6GBytes

■ **CPF-760**
2.6GBytes

■ **EQR-180**
1.3GBytes • $4,022

■ **EQR-380**
1.3GBytes

■ **EQR-380**
1.3GBytes

■ **EQR-383H**
1.3GBytes
The CPF-380, -383H, -760, EQR-180, -380, and -383H models are ESDI drives that feature simultaneous transfers, non-interleaved disk formats, block mode DMAs, command queing, overlapped seeks and on-board formatters with diagnostics.

Codar Technology, Inc.

■ **925RD**
4 Supported Drive(s) • 2.6GBytes • 5.25" • SCSI/ESDI Supported
The 925RD is a fully TEMPEST compliant subsystem that is designed to pass the most stringent EMI/RFI requirements of MIL-STD-461B A4 procedure.

Computer Upgrade Corporation

■ **CU-SMDI**
1-12 Supported Drive(s) • 7.6GBytes • $20,000+
The CU-SMDI is an HSC50/70 compatible subsystem that installs into any VAXcluster configuration.

DILOG

■ **FDR Series**
1-8 Supported Drive(s) • 9GBytes • $13,500+

■ **FSS Series**
2/4 Supported Drive(s) • 2.5GBytes • $6,185+

■ **MSS Series**
2 Supported Drive(s) • 2.46GBytes • $7,850+

■ **MV Series**
2 Supported Drive(s) • 760MBytes • $4,455+

■ **PowerDisk Series**
1-4 Supported Drive(s) • $7,400+

■ **QDR Series**
1-8 Supported Drive(s) • 6GBytes • $18,155+

■ **RDA Series**
2 Supported Drive(s) • 1.7GBytes • $34,105

■ **SSS Series**
1 Supported Drive(s) • 760MBytes • $4,955+

Emulex Corporation

■ **EPS Family**
4 Supported Drive(s) • 2 Supported Controller(s) • 4.3GBytes • $14,400+
Low-profile pedestal mounted SMD subsystem is ideally suited for deskside or office environments. Each subsystem is completely integrated and tested by Emulex, including formatting, mounting, and cabling. Installation consists of simply connecting the external cable assembly to your host.

■ **ER2/S**
2 Supported Drive(s) • 1 Supported Controller(s) • 1.5GBytes • $5,970+
The ER2/S is the Emulex Removable Subsystem that is equipped with a standard 19" rack mount chassis, a power supply, an Emulex MD21/S2 controller, a connector logic board, and internal cables. Please note that this unit requires Emulex's UC14 SCSI-UNIBUS or UC04 SCSI-Q-bus host adapters.

■ **ER2E**
2 Supported Drive(s) • 1 Supported Controller(s) • 1.5GBytes • $6,150+
The ER2E consists of one or two lightweight, easily removable 5.25" ESDI Winchester disk drives, the appropriate Emulex UNIBUS or Q-bus controller, and an enclosure chassis with its own power supply.

■ **ER2E-III**
2 Supported Drive(s) • 1 Supported Controller(s) • 1.5GBytes • $7,390
Designed for the MicroVAX 3500/3600, this subsystem is well suited for any application requiring portable, modular data storage. Each Portable Drive Module (PDM) has a single connector, folding handles, and a mechanical latch. On-board microprocessor monitors drive functions and controller states as well as automatic head locking and shut-down procedures by a temperature sensor monitor.

■ **SM202**
4 Supported Drive(s) • 4 Supported Controller(s) • 2.65GBytes • $17,580+
The SM202, designed for use in VAXcluster systems, includes the 9642 low-boy cabinet with SMDI chassis, one to four SM80 PCB adapters, one to four disk drives, and all internal cables.

■ **SM204**
4 Supported Drive(s) • 1 Supported Controller(s) • 2.65GBytes • $20,265+

■ **SM206**
12 Supported Drive(s) • 3 Supported Controller(s) • 7.96GBytes • $71,425

■ **SM208**
8 Supported Drive(s) • 2 Supported Controller(s) • 5.3GBytes • $64,190+
The SM206 and 208 include SMDI converters to connect SMD/E drives to the HSC40/50/70 controllers within VAXcluster systems. These subsystems are contained within 60-inch cabinets.

■ **SM212**
4 Supported Drive(s) • 1 Supported Controller(s) • 3.49GBytes • $20,720+
The SM212 is designed for use in VAXcluster systems. The subsystem is contained within a 42-inch cabinet.

■ **SM214**
4 Supported Drive(s) • 1 Supported Controller(s) • 3.49GBytes • $23,405+

■ **SM216**
12 Supported Drive(s) • 3 Supported Controller(s) • 10.5GBytes • $69,685

■ **SM218**
8 Supported Drive(s) • 1.5 Supported Controller(s) • 6.98GBytes • $79,900+
The SM214, 216, and 218 include SMDI converters to connect SMD/E drives to the HSC40/50/70 controllers within VAXcluster systems. These subsystems are contained within 60-inch cabinets.

■ **SM602**
4 Supported Drive(s) • 1 Supported Controller(s) • 2.36GBytes • $17,165+

■ **SM712**
4 Supported Drive(s) • 1 Supported Controller(s) • 6.98GBytes • $34,110+
The SM602 and 712 are designed for use in VAXcluster systems. These subsystems are contained within a 42-inch cabinets.

■ **SM718**
6 Supported Drive(s) • 1.5 Supported Controller(s) • 10.5GBytes • $41,240+
The SM718 includes an SMDI converter to connect SMD/E drives to the HSC50/70 controllers within VAXcluster systems. The subsystem is contained within a 60-inch cabinet.

■ **SM802**
4 Supported Drive(s) • 1 Supported Controller(s) • 1.15GBytes
The SM802 is designed for use in VAXcluster systems.

Epoch Systems, Inc.

■ **EPOCH-1 Model 30**
14 Supported Drive(s) • 2 Supported Controller(s) • 600MBytes • $155,000
An NFS File Server that connects to two Ethernet networks and allows on line access to up to 150GB. It is the only storage system that integrates magnetic and optical storage. Applies virtual memory concepts to magnetic storage. Support for up to 7.7GB of magnetic disks. Includes automatic backup. Specifications for fixed magnetic storage include support for 5.5" drive size and a 760MB storage capacity.

Exsys Storage Systems

■ **RACE 4000**
8 Supported Drive(s) • 2.07GBytes

■ **RACE 4000**
8 Supported Drive(s) • 2.07GBytes

■ **RACS 4000**
8 Supported Drive(s) • 2.28GBytes
The RACE 4000 and RACS 4000 Series features up to 2.28GB formatted storage per port and supports any controller that is RA compatible.

FPS Computing

■ **P64/110**
15.7GBytes
The P64/110 is a mass storage device for the MP64/60 mini-supercomputer, providing near-zero latency and seek times. It also features a modular design for prospective expansion requirements.

■ **P64/20**
2 Supported Drive(s) • 1-6 Supported Controller(s) • 6.1 Bytes
The P64/20 is a removable disk system designed for the M64/60.

■ **P64/20**
2 Supported Drive(s) • 1-6 Supported Controller(s) • 20.5GBytes
The P64/40 was designed to provide disk capability for the MS64/60 mini-supercomputer. It interfaces through a controller, allows data transfer, and may be upgraded to support up to 20.5GB of storage in 12 external cabinets.

■ **P64/30**
2 Supported Drive(s) • 6GBytes • $130,000+

■ **P64/30**
4 Supported Drive(s) • 6GBytes • $130,000+
The P64/30 is designed to provide disk capability for the MS64/30 mini-supercomputer. It interfaces through a controller and transfers data to and from the mini-supercomputer's main memory. Upgrades are available to support up to 24 drives in six external cabinets and may be configured for up to 6GB of storage.

■ **P64/40**
2 Supported Drive(s) • 1-6 Supported Controller(s) • 20.5GBytes
The P64/40 was designed to provide disk capability for the MS64/60 mini-supercomputer. It interfaces through a controller and transfers data to and from the mini-supercomputer's main memory. Upgrades are available to support up to 20.5GB of storage in 12 external cabinets.

Group Three Electronics

■ **3410**

■ **3420**

■ **3440**

■ **3441**

■ **3442**
The 341x, 342x, and 344x models feature programmable interleaves of 1:1, DMA capabilities, and overlapped seek optimization.

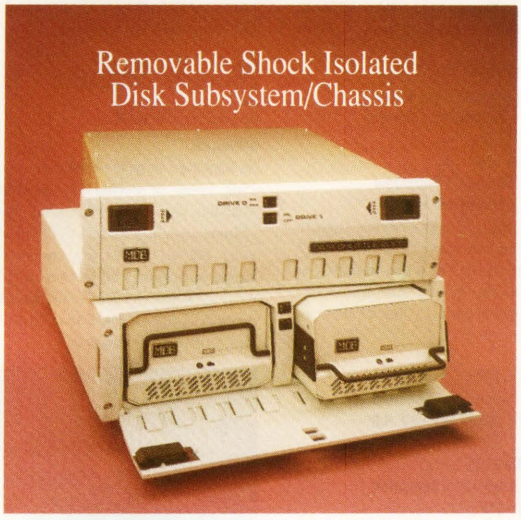
■ **3480**

■ **3481**

■ **3482**
The 348x Series features programmable interleaves of 1:1, overlapped seek optimization, DMA capabilities, and data transfer fragmentation reducing overall latency.

MDB Systems, Inc.

Data Shuttle 2000
2 Supported Drive(s) • 1 Supported Controller(s) • 1.52GBytes • $21,667
Removable disk canister provides shock protection to drive when installed or removed from chassis. LIF connector; no cable to disconnect. Rack, table or pedestal



DATA SHUTTLE™ 2000

The Data Shuttle 2000 is a rack mountable or table top chassis that allows one or two 5 1/4" devices to be mounted in individual removable shock isolated canisters.

- Compatible with all computer systems
- Automatic parking of heads when removing canister
- Available with or without disks or disk controllers
- Low Insertion Force connectors; no cables to disconnect
- Canister resident write protect switch and indicator
- Optional solenoid interlock

DATA SHUTTLE 2000-RA

This new rack mountable or desktop configuration connects directly to DEC's UDA-50, KDA-50 and HSC-50/70 controllers.

DATA SHUTTLE 1000

This desk top configuration provides a single disk mounted in a removable shock isolated disk canister.

DATA SHUTTLE 3000

This ruggedized removable subsystem is designed for harsh environments without the added cost of MIL-Spec.

DATA SHUTTLE 4000

The most ruggedized, militarized, Tempest-certifiable removable-drive subsystem today. A true NDI product.

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Orange, CA, 92613-5508
Tel (714) 998-6900 FAX (714) 637-4060
Outside CA **(800) 556-0222**
CA **(800) 637-2028**

MDB
MDB SYSTEMS, INC.
–We put the *State of the Art* to work–

For United Kingdom, MDB Systems U.K., Ltd.,
Intec 2, Wade Road, Basingstoke, Hants., RG24 0NE,
Tel 0256 464767 Telex 858389 MDBSYS G FAX 0256 59748

For Western Europe, MDB Systems IRL, Ltd., St Josephs Road,
Portumna, Co. Galway, Republic of Ireland, Tel (353) 509 41163/
41413 Telex 50918 MDB EI FAX (353) 509 41447

Data Shuttle is a trademark of MDB SYSTEMS, INC.

mounting. Connects to DEC KDA50, UDA50, UDB50, or HSC50/70 controllers.

■ **Data Shuttle 1000**
1 Supported Drive(s) • 1 Supported Controller(s) • 760MBytes • $10,045

■ **Data Shuttle 1000**
1 Supported Drive(s) • 1 Supported Controller(s) • 760MBytes • $6,484
The Data Shuttle 1000 Series feature removable disk canisters that provide shock protection to the drives when installed or removed from the chassis. LIF connector; no cables to disconnect. Rack, table or pedestal mounting.

■ **Data Shuttle 2000**
2 Supported Drive(s) • 1 Supported Controller(s) • 760MBytes • $9,160

■ **Data Shuttle 2000**
2 Supported Drive(s) • 2 Supported Controller(s) • $12,541
The above two models of the Data Shuttle 2000 Series feature removable disk canisters that provide shock protection to the drives when installed or removed from the chassis. LIF connector; no cables to disconnect. Rack, table or pedestal mounting. Also feature integral SCSI to ESDI converter.

■ **Data Shuttle 2000**
2 Supported Drive(s) • 1 Supported Controller(s) • 1.52GBytes • $11,833
Removable disk canister provides shock protection to drive when installed or removed from chassis. LIF connector; no cable to disconnect. Rack, table or pedestal mounting.

■ **Data Shuttle 2000**
2 Supported Drive(s) • 2 Supported Controller(s) • 760MBytes • $18,433
Removable disk canister provides shock protection to drive when installed or removed from chassis. LIF connector; no cable to disconnect. Rack, table or pedestal mounting. Connects to DEC KDA50, UDA50, UDB50, or HSC50/70 controllers.

■ **Data Shuttle 2000**
1 Supported Controller(s) • 760MBytes • $7,750
Removable disk canister provides shock protection to drive when installed or removed from chassis. LIF connector; no cable to disconnect. Rack, table or pedestal mounting.

■ **Data Shuttle 3000**
2 Supported Drive(s) • 760MBytes • $14,053

■ **Data Shuttle 3000**
2 Supported Drive(s) • 1.5GBytes • $17,313
The Data Shuttle 3000 Series provides all of the operational features of the Ruggedized Data Shuttle 4000, but features a commercial power supply and commercial I/O connecters.

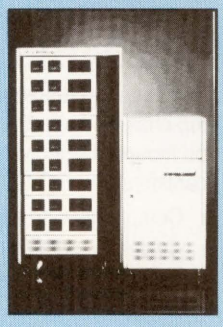
■ **Data Shuttle 4000**
2 Supported Drive(s) • 1.5GBytes • $24,180

■ **Data Shuttle 4000**
2 Supported Drive(s) • 760MBytes • $20,938
The Data Shuttle 4000 Series (RCS-P) provides shock and vibration protection to the removable disks and has MIL-Spec power supplies and MIL-Spec I/O connectors. Used in military airborne, vehicular, and shipboard applications.

Memory Sciences Corporation

■ **FASTOR**
64 Supported Drive(s) • 48GBytes
This array of drives is operated by a VMEbus and a multitasking operating system using a Motorola 68020 computer. Four 760MB drives are connected to a single controller, and 18 controller boards with 4.8Mbps transfer rates may be connected to the host interface. Multiseeking and multitransfers occur.

Micro Technology, Inc.



■ **6200 Series**
The 6200 Series storage array is the only storage solution that combines a high capacity HSC compatible cartridge tape with a built-in RA90 compatible disk, together as one integral storage solution. That's right; one to one. For every bit of data that is stored on disk, there is an HSC compatible 8mm cartridge tape standing by for back-up. Based on Micro Technology's field-proven MDI Series storage devices and the unmatched capacity and reliability of the MA-24 cartridge tape, the 6200 Series offers DEC HSC40, HSC50, and HSC70 users the ultimate storage solution in a compact 5.25" form factor.

■ **Intercept Removable**
14 Supported Drive(s) • 2 Supported Controller(s) • 8.12GBytes • $38,328
Intercept is designed to be the systems solution to removable Winchester technology. It houses up to two removable canisters for 1,160 MB of on-line storage. It's compatible with the DEC HSC70/50, KDB50, KDA50 and UDA50 controllers.

■ **MDI-276**
9 Supported Drive(s) • 2 Supported Controller(s) • 10.44GBytes • $25,882
Employs IBM 3380 type technology. The MDI-276 also has built-in diagnostics as well as on off-line auto formatter.

■ **MDI-276R**
7 Supported Drive(s) • 2 Supported Controller(s) • 8.12GBytes • $38,000
The MDI-276R provides removable Winchesters for users of classified data. It offers data integrity through its controller/operating system level spin down.

■ **MDI-476**
9 Supported Drive(s) • 2 Supported Controller(s) • 20GBytes • $51,764
The MDI-476 uses multiple HDAs synchronized together to form a 2.3GB storage array. Compatible with DEC HSC70, HSC50, KDB50, KDA50, and UDA50 controllers.

■ **MDI-476 PLUS**
9 Supported Drive(s) • 2 Supported Controller(s) • 18GBytes • $50,558
The MDI-476 uses multiple HDAs synchronized together to form a 2GB disk device. Compatible with DEC HSC70, HSC50, KDB50, KDA50 and UDA50 controllers. Allows up to 8GB per HSC5X-BA/DA card.

■ **MDI-6005**
2 Supported Drive(s) • 2 Supported Controller(s) • 4.64GBytes • $75,000
Compatible with DEC HSC70, HSC50, KDB50, KDA50 and UDA50 controllers. Provides high capacity per foot print. Direct replacement for DEC's SA600.

■ **MDI-6010**
4 Supported Drive(s) • 2 Supported Controller(s) • 9.28GBytes • $145,000

■ **MDI-6015**
7 Supported Drive(s) • 2 Supported Controller(s) • 16.24GBytes • $245,000

■ **MDI-6020**
9 Supported Drive(s) • 2 Supported Controller(s) • 20.88GBytes • $310,000
The MDI-6010, -6015, and -6020 are compatible with DEC HSC70, HSC50, KDB50, KDA50 and UDA50 controllers. Provide high capacity per foot print.

■ **MDI-6207**
2 Supported Drive(s) • 2 Supported Controller(s) • 580MBytes • $30,000

■ **MDI-6227**
2 Supported Drive(s) • 2 Supported Controller(s) • 1.16GBytes • $40,000
The MDI-6227 and -6247 Plus are compatible with DEC HSC70, HSC50, KDB50, KDA50 and UDA50 controllers. Combines both RA compatible disk and TA/8mm HSC compatible tapes in the same chassis. Also available in a pedestal version with UNIBUS and Q-bus interfaces.

■ **MDI-6247 Plus**
2 Supported Drive(s) • 2 Supported Controller(s) • 2GBytes • $65,760
Compatible with DEC HSC70, HSC50, KDB50, KDA50 and UDA50 controllers. Combines both RA compatible disk and TA/8mm HSC compatible tape drives in the same chassis. Also available in a pedestal version with UNIBUS and Q-bus interfaces.

■ **MDI-76**
9 Supported Drive(s) • 2 Supported Controller(s) • 5.2GBytes • $15,800
Compatible with DEC HSC70, HSC50, KDB50, KDA50 and UDA50 controllers and with MTI's intercept removable chassis.

■ **MDQ-238**
2 Supported Drive(s) • 1 Supported Controller(s) • 1.28GBytes • $19,194
Q-bus compatible featuring disk shadowing. Available in rackmount or tabletop versions.

■ **MDQ-238R**
2 Supported Drive(s) • 1 Supported Controller(s) • 1.28GBytes • $19,194
Q-bus compatible features disk shadowing in tabletop, or rackmount configurations. Controller/operating system controlled spindown of the disk to ensure data integrity.

■ **MDQ-276**
2 Supported Drive(s) • 1 Supported Controller(s) • 2.48GBytes • $30,235
Compatible with DEC HSC70, HSC50, KDB50, KDA50 and UDA50 controllers. Q-bus compatible featuring disk shadowing. Also available in desktop or pedestal versions.

■ **MDQ-276R**
2 Supported Drive(s) • 1 Supported Controller(s) • 2.48GBytes • $30,235
Q-bus compatible drive that features controller operating systems spindown and disk shadowing.

■ **MDQ-38**
4 Supported Drive(s) • 1 Supported Controller(s) • 1.28GBytes • $14,295
Available in rackmount and tabletop configurations. Features disk shadowing.

■ **MDQ-76**
4 Supported Drive(s) • 1 Supported Controller(s) • 2.48GBytes • $18,970
Q-bus compatible drive that features disk shadowing. Available in desktop or rackmount versions.

■ **MDQ-76R**
4 Supported Drive(s) • 1 Supported Controller(s) • 2.48GBytes • $18,970
Data integrity is provided through controller/operating system spindown. Features disk shadowing and is available in tabletop or rackmount versions.

PMC Associates

■ **ESDX Series**
1 Supported Drive(s) • $5,566
The ESDX Series features a controller I/O panel that provides switch-selectable configurations of single- or dual-controller operation, allowing two hosts access to one dual-drive subsystem. It also features 1MB cache memory and a 3Mbps data transfer rate. The storage capacity is unformatted.

Recognition Concepts, Inc.

■ **VisiSTORE**
1 Supported Controller(s) • 1.6GBytes • $30,000+
The VisiSTORE is best suited for applications requiring high speed data acquisition and retrieval. It is available with an optional (isolated) network connection, VisiNET (20Mbps), that is capable of serving up to ten nodes.

Scientific Micro Systems, Inc.

■ **SMS 1000-60**
2 Supported Drive(s) • 1 Supported Controller(s)
Includes a disk controller and features configuration flexibility 5.25" and 8" floppy drives and .25 cartridge tape drives are also supported. Includes a resident SENSE monitor for rapid systems configuration and testing.

■ **SMS 1000-68**
2 Supported Drive(s) • 1 Supported Controller(s) • 380MBytes
Includes a disk controller and features

configuration flexibility 5.25" floppy drives and .25 cartridge tape drives are also supported. Includes a resident SENSE monitor for rapid systems configuration and testing.

Storage Concepts, Inc.

■ **Concept 21**

■ **Concept 31**
The Concept 31 offers high speed disk transfer rates, delivering rate of 12.3Mbps and a sustained rate of 10.7Mbps.

■ **Concept 51**
The Concept Series of disk processors provides high speed disk storage for image storage and supercomputer data storage. Requires the Storage Concepts' host adapter (UBHA) board to provide a link to the CPU for system control and access of stored data.

■ **MV21**
MV21 subsystems include a QBHA board, a Concept 21 and 1-4 M2350A PTDs.

■ **MV31**
MV31 subsystems include a QBHA board, a Concept 31 and 1-4 M2360A PTDs.

Summus Computer Systems

■ **Ethernet File Server**
3GBytes
Designed to enhance the productivity of any interconnected MicroVAX system.

■ **GigaBox-102**
4 Supported Drive(s) • 20GBytes

■ **GigaBox-104**
4 Supported Drive(s) • 20GBytes

■ **GigaBox-106**
4 Supported Drive(s) • 20GBytes

■ **GigaBox-117**
8 Supported Drive(s) • 20GBytes

■ **GigaBox-119**
4 Supported Drive(s) • 20GBytes
The GigaBox Series offers maintenance support options through an award winning National Support Group with investment/upgrade protection plans.

■ **GigaTape JBL 125**
120GBytes • $38,000

System Industries

■ **CLUSTOR 3/SI56/QD**
2-16 Supported Drive(s) • 4 Supported Controller(s) • 4.8GBytes • $45,700+

■ **CLUSTOR 3/SI83**
2-16 Supported Drive(s) • 2 Supported Controller(s) • 8.8GBytes • $65,500+

■ **CLUSTOR 3/SI85**
2-16 Supported Drive(s) • 2 Supported Controller(s) • 10.5GBytes • $60,400+

■ **CLUSTOR 3/SI93**
2-16 Supported Drive(s) • 2 Supported Controller(s) • 14.5GBytes • $61,000+
The CLUSTOR 3 Series supports up to eight CPUs.

■ **CLUSTOR 5/SI56 QD**
2-16 Supported Drive(s) • 4 Supported Controller(s) • 4.8GBytes • $63,500+

■ **CLUSTOR 5/SI83**
2-16 Supported Drive(s) • 2 Supported Controller(s) • 88GBytes • $85,400+

■ **CLUSTOR 5/SI85**
2-16 Supported Drive(s) • 2 Supported Controller(s) • 10.5GBytes • $78,200+

■ **CLUSTOR 5/SI93**
2-16 Supported Drive(s) • 2 Supported Controller(s) • 14.5GBytes • $76,500+
The CLUSTOR 5 Series supports up to eight CPUs.

■ **MP PAC S SI56**
2-4 Supported Drive(s) • 1 Supported Controller(s) • 1.54GBytes • $22,900+

■ **MP PAC S SI57**
2-4 Supported Drive(s) • 1 Supported Controller(s) • 2.3GBytes • $31,900

■ **MP PAC S SI57/QD**
2-4 Supported Drive(s) • 1 Supported Controller(s) • 2.3GBytes • $29,800+

■ **MP PAC SI56**
2-4 Supported Drive(s) • 1 Supported Controller(s) • 844MBytes • $19,900+

■ **MP PAC SI56/QD**
2-4 Supported Drive(s) • 1 Supported Controller(s) • 1.54GBytes • $17,200+

■ **MP PAC SI57**
2-4 Supported Drive(s) • 1 Supported Controller(s) • 2.3GBytes • $23,500+

■ **QDA 4E/QUAD PAC**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 2.3GBytes • $13,700+

■ **QDA 4E/SI56**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 1.2GBytes • $7,600+

■ **QDA 4E/SI56/QD**
1-2 Supported Drive(s) • 1 Supported Controller(s) • 638MBytes • $9,900+

■ **QDA 4E/SI57**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 2.3GBytes • $12,900+

■ **QDA 4E/SI57/QD**
1-2 Supported Drive(s) • 1 Supported Controller(s) • 1.15GBytes • $14,400+

■ **QDA 4S/SI83/QD**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 2.2GBytes • $25,600+

■ **QDA 4S/SI85**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 2.6GBytes • $19,100

■ **QDA 4S/SI93**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 3.6GBytes • $24,900+

■ **QDA 4S/ST83**
1-4 Supported Drive(s) • 1 Supported Controller(s) • 2.2GBytes • $21,900+

■ **SI56C Quick Disconnect**
1-8 Supported Drive(s) • 2 Supported Controller(s) • 3.07GBytes • $13,500+

■ **SI57C QUAD PAC**
2-16 Supported Drive(s) • 4 Supported Controller(s) • 8.9GBytes • $29,300+

■ **SI57C Quick Disconnect**
1-8 Supported Drive(s) • 2 Supported Controller(s) • 4.46GBytes • $20,250+

■ **SI83C**
2-8 Supported Drive(s) • 2 Supported Controller(s) • 4.16GBytes • $38,500+

■ **SI83C Quick Disconnect**
2-8 Supported Drive(s) • 2 Supported Controller(s) • 4.16GBytes • $24,800+

■ **SI85C**
2-8 Supported Drive(s) • 2 Supported Controller(s) • 4.9GBytes • $41,400+

■ **SI85C/Quick Disconnect**
2-8 Supported Drive(s) • 2 Supported Controller(s) • 4.9GBytes • $41,400

■ **SI93C**
2-8 Supported Drive(s) • 2 Supported Controller(s) • 6.7GBytes • $35,350+

■ **SI95C**
2-8 Supported Drive(s) • 2 Supported Controller(s) • 13.6GBytes • $59,800+
The SI95C subsystem incorporates a unique dual-actuator design.

Systems Concepts, Inc.

■ **DS-30**
4 Supported Controller(s)
The DS-30 is available with an optional two-channel interface.

Tech Labs

■ **WL-84**
1 Supported Drive(s) • 2 Supported Controller(s) • 84MBytes • $5,525
The WL-84 features fast access with reliability. Cost effective storage solution for small computer systems and intelligent workstations.

Trimarchi, Inc.

■ **DATAKEG-300**
1 Supported Drive(s) • 1 Supported Controller(s) • 600MBytes • $5,500

■ **DATAKEG-600**
1 Supported Drive(s) • 1 Supported Controller(s) • 600MBytes • $8,500
The DATAKEG Series is similar in appearance to the MV 2000 chassis.

■ **DQ696-9380E**
1 Supported Drive(s) • 300MBytes • $3,915

■ **DQ696-XT8760E**
1 Supported Drive(s) • 600MBytes • $5,345

■ **EZ5FI4-DQ686-9380E-2**
2 Supported Drive(s) • 600MBytes • $8,460

■ **EZ5FI4-QDO-XT4380S**
1 Supported Drive(s) • 300MBytes • $5,970

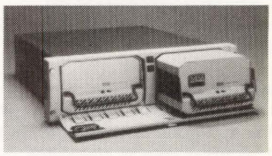
■ **EZ5FI4-QDO-XT4380S**
1 Supported Drive(s) • 1 Supported Controller(s) • 300MBytes • $5,970

■ **EZ5FI4-QDO-XT8760S-5030**
1 Supported Drive(s) • 600MBytes • $11,740
This subsystem contains a 600MB hard drive and an erasable optical disk drive with removable cartridges.

■ **EZ5FI4-UDT-87605-EXB8200**
1 Supported Drive(s) • 1 Supported Controller(s) • 600MBytes • $12,205
This subsystem is also equipped with one helical scan tape drive.

Mass Storage Solutions For DEC And SUN.

MESA 6300 Series



- Plug compatible with DEC® disc controllers (UDA/KDA/HSC, etc.), VAX UNIBUS,® MicroVax II Q-bus,® MicroVax III Q-bus® and Sun VME® based workstations.
- All subsystems feature proven reliable 5¼ inch drives by Hewlett-Packard® and Hitachi.®
- MTBF ratings to 150,000 hrs. on HP drives.
- Five year warranty on HP drives.
- Available in removable, shock-mounted canisters in desk and rack mount.
- Non-removable configurations available in floor and rack mount.
- Up to 3 GB per subsystem.
- A variety of enclosure styles for office/workstation and traditional computer room environments.
- All subsystems are shipped complete with interfacing and installation documentation.
- MESA also offers expert installation, as well as on-site service.
- MESA has nearly two decades of integration experience.

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Springfield, MA	*Burlington, VT*	
800/999-6780	800/999-6780	
Raleigh, NC	*Richmond, VA*	
800/777-2340	800/777-2340	

An Electrocomponents Company

■ **EZ5MV-DQ696-9380E**
1 Supported Drive(s) • 300MBytes • $10,385

■ **EZ5MV-QD0-XT87605**
1 Supported Drive(s) • 600MBytes • $12,436

■ **EZ5MV-UD0-XT-87605**
1 Supported Drive(s) • 1 Supported Controller(s) • 3.6GBytes • $12,645

■ **MV2000-EX5FA-LASERASE**
1 Supported Drive(s) • 1 Supported Controller(s) • 600MBytes • $6,200
Similar in appearance to the MV 2000 chassis.

■ **QD0-9380S-5030**
1 Supported Drive(s) • 300MBytes • $7,945
This subsystem contains a 300MB hard drive and an erasable optical disk drive.

■ **QD0-LASERASE 5030**
1 Supported Drive(s) • 1 Supported Controller(s) • 600MBytes • $5,295
Erasable optical media.

■ **QDT-9380S-EXB8200**
1 Supported Drive(s) • 1 Supported Controller(s) • 300MBytes • $8,210
This subsystem contains a 300+MB hard drive and an 8mm helical scan tape drive.

■ **RD54-FA**
1 Supported Drive(s) • 1 Supported Controller(s) • 150MBytes • $2,750

■ **UDT-XT8760S-EXB8200**
1 Supported Drive(s) • 1 Supported Controller(s) • 600MBytes • $10,460
This subsystem contains a 600MB hard drive and an 8mm helical scan tape drive.

TRISTAR TECHNOLOGY

■ **Orion 1000**
2 Supported Drive(s) • 1 Supported Controller(s) • 380MBytes • $2,300+

■ **Orion 2000**
2 Supported Drive(s) • 1.5GBytes • $2,300+

■ **Orion 3000**
2 Supported Drive(s) • 1 Supported Controller(s) • 1.5GBytes • $2,300+

■ **Orion 4000**
2 Supported Drive(s) • 1 Supported Controller(s) • 1.5GBytes • $8,000+
The Orion Series features solid shock protection and large capacity high performance removable disk storage providing security, quick back-up, and transportability.

■ **PSA600-FA**
4 Supported Drive(s) • 2.69GBytes • $32,564

■ **PSA600-JA**
16 Supported Drive(s) • 9.97GBytes • $124,352

■ **PSA601-JA**
12 Supported Drive(s) • 9.75GBytes • $179,674
Direct connection to all DEC SDI controllers. Fully compatible with all DEC diagnostics and other utilities. Large capacity; utilizes fewer SDI ports.

U. S. DESIGN CORPORATION

■ **Q-Kit**
4 Supported Drive(s) • 1 Supported Controller(s) • 760MBytes • $3,250
The Q-Kit is a family of internal drives for a DEC BA23 or BA123 system. The Q-Kit includes U. S. Design's HA1108 Q-bus host adapter, cables, installation manual and choice of 170MB, 380MB, or 760MB magnetic disks, an 800MB WORM optical disk, or a 2.3GB 8mm tape drive.

■ **QD**
2 Supported Drive(s) • 2.3GBytes • $2,800
The QD is a family of dual drive tabletop units that interface to DEC or SUN systems. The QD may be configured with any mixture of 170MB, 380MB, or 760MB magnetic disks, an 800MB WORM optical disk, a 2.3GB 8mm tape drive, or a 650MB erasable optical disk.

■ **QS**
4 Supported Drive(s) • 3.2GBytes • $4,095
The QS is a family of four drive rack or pedestal mount storage systems for interfacing to DEC or SUN systems. The QS may be configured as a 170MB, 380MB, or 760MB magnetic disk, an 800MB WORM optical, a 2.3GB 8mm tape drive, or a 650MB erasable optical disk.

■ **QT**
1 Supported Drive(s) • 2.3GBytes • $2,600
The QT is a family of single drive tabletop units for interfacing to DEC or SUN systems. The QT may be configured as a 170MB, 380MB, or 760MB magnetic disk, an 800MB WORM optical, a 2.3GB 8mm tape drive, or a 650MB erasable optical disk.

■ **VIP**
1-4 Supported Drive(s)
The VIP is a high speed, high density storage peripheral that is equipped with a management processor (Intel 8088) that analyzes how the CPU stores and retrieves data from the disk drives. It also features a control processor (Intel 8085) that manages all disk control sequences and data transfers. The VIP requires the USDC 1158 UNIBUS board.

■ **VIP/E**
1-4 Supported Drive(s) • 2.63GBytes • $4,600
The VIP/E is a high capacity, high performance storage system that is equipped with the KA4190 cache controller that reduces the disk average seek time. The VIP/E is a storage system that supports four peripheral units available from U. S. Design.

■ **VIP/H**
4 Supported Drive(s) • 2 Supported Controller(s) • 2.2GBytes • $18,000
The VIP/H is a high capacity storage system that is equipped with a KA2200 protocol converter to allow easy connection to DEC via the SDI interface. The VIP/H may be added to the DEC HSC 40/50/70, KDA50, KDB50, and the UDA50.

UNBOUND, INC.

■ **Series QB-500**
1.3GBytes • $5,000+

■ **Series QT-600**
2.6GBytes • $8,500+

■ **Series UB-500**
1.3GBytes • $6,000+

■ **Series UT-600**
1.3GBytes • $9,500+

WINCHESTER SYSTEMS, INC.

■ **DataSafe**
7 Supported Drive(s) • 6GBytes • $8,995+
The DataSafe Series features a unique combination of controller cache memory and continuous disk optimization and includes a 2.3GB helical scan 8mm tape. These subsystems replace DEC RA and RD disk drives and the TK and TU tape drives.

OPTICAL DRIVES

AVIV CORPORATION

■ **OSS 2000/825B**
2.04GBytes • UNIBUS/BIbus Supported • $35,000
The OSS 2000/825B system includes an OSC 2000 controller, an optical disk drive, host interface, and a VT100 compatible terminal, housed in a 42" VAX style cabinet. Also supports the Pertec interface.

COMPUTER UPGRADE CORPORATION

■ **OSR/VAX-U1**
2GBytes • UNIBUS Supported • $20,000

INFORMATION STORAGE INC. (ISI)

■ **525GB**
1.28GBytes • UNIBUS/Q-bus/BIbus Supported • $4,282
The ISi 525GB optical disk drive features high-capacity and high-performance. It is ideal for a wide range of data storage applications. The quoted price reflects a purchase of 100 units.

■ **525GBX2**
2.56GBytes • $7,833
The ISi 525GBX2 optical storage system features high-capacity and high-performance. As such, it is ideal for a wide range of data storage applications. The quoted price reflects a purchase of 100 units.

LASER MAGNETIC STORAGE

■ **1200**
1GByte • $9,450
The Laser Drive 1200 stores up to 1000MB on each side of a 12" disk, which is housed in a removable cartridge. Head crashes are nonexistent because the optical head does not fly close to the disk. Also supports the ISI interface.

■ **510**
5.25" • 654MBytes • $2,880
The Laser Drive 510 is a double-sided removable optical drive featuring WORM capabilities and sampled servo (4/15 data format) technologies.

LASERDRIVE

■ **840**
810MBytes • Q-bus Supported
Features multiple track buffering with sector caching and bad sector mapping and a data access time of less than 175ms over the entire 405MB surface.

MAXTOR CORPORATION

■ **RXT-800S**
5.25" • 800MBytes • $1,300
The RXT-800S is an optical drive with removable media.

■ **Tahiti**
5.25" • 650M/1GBytes*
The Tahiti is an erasable optical disk drive with removable media.

OPTIMEM

■ **1000**
2GBytes • $13,600
The 1000 is also available with the 1001 and the 1002 optical media products.

PERCEPTICS CORPORATION

■ **LD1200**
12" • 2GBytes • UNIBUS Supported

■ **Optimem 1000**
2GBytes • UNIBUS Supported

■ **Optimem 2400**
2.4GBytes • UNIBUS Supported
The Optimem 2400 provides MSCP emulation and features a removable 12" disk media, microprocessor controlled electronics, internal diagnostics, a modular design and is available with an advanced SCSI interace as an option.

PIONEER COMMUNICATIONS OF AMERICA, INC.

■ **DD-M5001**
654MBytes • DEC Supported
Half-height drive, designed to be used in conjunction with Pioneer's DD-C5001 optical disk controller.

■ **DD-U5001**
654MBytes • DEC Supported
The DD-U5001 is a combination of Pioneer's DD-M5001 optical drive and DD-C5001 disk controller.

SUMMUS COMPUTER SYSTEMS

■ **LightDisk 650**
$6,995

TECEX

■ **TEC-OAS/1**
2GBytes • UNIBUS Supported • $15,000+

■ **TX-2200**
2GBytes • UNIBUS Supported • $14,500

TOSHIBA AMERICA

■ **WM-S070**
5.25" • UNIBUS/Q-bus/BIbus Supported • $3,595

■ **WM-S500**
12" • 5GBytes • UNIBUS Supported • $16,500

■ **XM-3100B**
5.25" • 680MBytes • UNIBUS Supported
The XM-3100B is a half-high drive intended for the OEM and VAR market, priced at less than $600 in quantities over 100 units.

U. S. DESIGN CORPORATION

■ **QT650**
650MBytes • UNIBUS/Q-bus Supported • $8,230

Unbound, Inc.

■ **OPTO-5020 QUBE**
800MBytes • UNIBUS Supported • $4,500+
The quoted storage capacity is unformatted.

Winchester Systems, Inc.

■ **Optical Disk**
800MBytes
Embedded SCSI controller.

Optical Subsystems

Adept Digital Systems, Inc.

■ **OSI LD1200**
UNIBUS Supported
The OSI LD1200 includes an OSI LD1200 drive, cables, a host bus adapter, device driver software for VMS, RSX, and RT-11 operating systems, a software utility library, and sample application and demo software. An optical disk interface package is also available for $4,000.

Alphatronix

■ **Infinity**
UNIBUS/Q-bus Supported
Infinity is a removable subsystem, available in single or dual drive units as well as standalone tower or desktop models. Provides random access to stored files. Designed to support DEC workstations.

Aquidneck Systems International

■ **OAS 100**
SCSI Supported • UNIBUS Supported • $23,300+

■ **OAS 150**
SCSI Supported • UNIBUS Supported • $28,300+

■ **OAS 2000**
SCSI Supported • UNIBUS Supported • $95,000+

■ **OAS 3420**
SCSI Supported • UNIBUS Supported • $34,500+

Aviv Corporation

■ **OSS2000**
UNIBUS/Q-bus Supported • $32,000
Features three operating modes: Optical on-line (data transfer between host and disk), off-line copy (data transfer between disk and tape drive), and tape on-line for tape to host operation. Includes host adapter.

Computer Upgrade Corporation

■ **OSR-VAX/U1**
SCSI Supported • UNIBUS Supported • $19,995

Cygnet Systems, Inc.

■ **5250**
SCSI Supported • UNIBUS Supported
The 5250 supports drives that are both ISO and non-ISO conforming. It contains 25 cartridges and one or two drives.

■ **Series 1800**
The Series 1800 is an expandable jukebox that supports ATG, Hitachi, Optimem, and LMSI WORM drives. Contains up to five optical disk drives and up to 141 optical disks, providing up to 550 billion bytes of information.

EMC Corporation

■ **Archeion 1000**
SCSI Supported • UNIBUS/Q-bus Supported
The Archeion 1000 emulates either a magnetic tape drive or a disk drive.

Emulex Corporation

■ **LX410**
SCSI Supported • UNIBUS/Q-bus Supported • $19,340+
The LX400 requires Emulex's UC14 SCSI-UNIBUS or UC04 SCSI-Q-bus host adapters. It also features a 340Kbps read sustained data rate.

■ **LX412**
SCSI Supported • UNIBUS Supported • $20,350+
The LX400 requires Emulex's UC14 SCSI-UNIBUS or UC04 SCSI-Q-bus host adapters. It also features a 340Kbps read sustained data rate.

IPS Technology

■ **2000**
UNIBUS/BIbus Supported • $24,495
The 2000 supports both disk and tape devices and includes an optical disk drive, a CPU adaptor and application software. It also supports random access of extremely large user databases on a removable optical media unit. The system is available with an optional disk storage capacity up to 4GB. When ordering, please specify board number 2250.

■ **2058**
UNIBUS/BIbus Supported
Same as above. However, 1.6GB is the optional disk storage capacity. When ordering, please specify board number 2058.

KOM, Inc.

■ **OptiServer**
UNIBUS/Q-bus Supported
Magnetic disk emulation allows application programs to be run against disk files. Cluster support provides cluster wide mounting of optical disk volumes.

Laserdrive

■ **840**
SCSI Supported • Q-bus Supported
Features multiple track buffering with sector caching and bad sector mapping and a data access time of less than 175ms over the entire 405MB surface.

MCS Computer Products, Inc.

OAS 100/150
UNIBUS Supported • $38,500+

Perceptics Corporation

■ **LaserStar**
May be configured with either the (LMS) ODSR featuring one drive holding 20 double-sided media or two drives holding 16 double-sided media or the Cygnet Series 1800 featuring one to five drives with double-sided media capacities from 15 to 42. The media capacity is 2GB per double-sided disk. Includes a robotic disk handling mechanism, a media storage unit, and Perceptics LaserStar software.

■ **LaserStar 2400**
Includes LaserStar magnetic disk emulating software and jukebox management software, a Cygnet 1800 series expandable jukebox, Perceptics' Optimem 2400 optical disk drive, a SCSI host adapter, and associated cables and hardware.

■ **LaserSystem**
SCSI Supported
Includes Perceptics LaserWare file system software. This system may store up to 1GB on-line per drive or 2GB on a removable cartridge. VAX/VMS 4.0 or higher is required.

■ **LaserSystem 525**
SCSI Supported • UNIBUS/Q-bus Supported
Includes Perceptic's LaserWare, a VMS-compatible optical disk file system software package, providing directories using the standard WORMS-11 optical disk format.

Pioneer Communications of America, Inc.

■ **DD-S5001**
SCSI Supported

Qualogy, Inc.

■ **QLC-5000**
Q-bus Supported • $19,000
Complete hardware and software product that partitions the optical media into multiple logical volumes to reduce the file access time to 300ms.

Scientific Micro Systems, Inc.

■ **601**
SCSI Supported • Q-bus Supported
Includes a formatter, an OSS software license with object code, cables and documentation.

■ **661**
SCSI Supported • Q-bus Supported
Includes a formatter, an OSS software license with object code, cables and documentation. Designed for permanent storage for lower-volume standalone back-up, archive, and database applications.

Summus Computer Systems

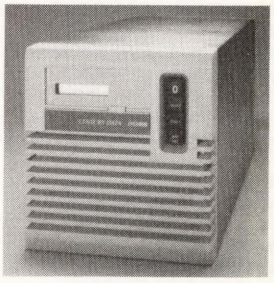
■ **LightDisk-650**
SCSI Supported • UNIBUS/Q-bus Supported
Used for augmenting disk capacities, offloading data files, providing high-capacity back-up for networks, archiving and distributing databases, image storing and retrieving, electronic publishing and file-server applications.

Tristar Technology

■ **PE 3660-1D**
SCSI Supported • UNIBUS/Q-bus Supported • $5,914
The PE 3660-1D is 100% plug compatible, removable media. Rackmount, table top or pedestal congifurations available. Features a SCSI interface for system configuration flexibility.

The Only 100% RA Compatible Drive With Better Price And Performance.

Century Data



100% RA Compatible
- Plug compatibility at disk level with no third party protocol conversion.
- Totally transparent to DEC® hardware and operating system software.
- Runs all DEC system diagnostics with no system patches.
- Can be used in conjunction with existing DEC drives.

Superior Performance
- Up to 1.8 GB formatted per port.
- 15 to 18 ms average seek.
- Data transfer rate up to 2.5 MB/sec.
- Up to 8 GB in a single cabinet, 8 drive configuration.
- Substantially lower cost per MB.
- Mountable in existing DEC cabinet.

DEC is a registered trademark of Digital Equipment Corporation.

MESA TECHNOLOGY CORPORATION

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800/999-6780	800/999-6780	
Raleigh, NC	*Richmond, VA*	
800/777-2340	800/777-2340	

An Electrocomponents Company

■ **PE 3660-2D**

SCSI Supported • UNIBUS/Q-bus Supported

The PE 3660-2D is 100% plug compatible, removable media. Rackmount, table top or pedestal congifurations available. Features a SCSI interface for system configuration flexibility.

U. S. Design Corporation

■ **JukeVOS**

SCSI Supported • UNIBUS/Q-bus Supported • $35,000

■ **JukeVOS**

SCSI Supported • UNIBUS/Q-bus Supported • $35,000

The JukeVOS optical package is a complete package that controls the robotics of the 5.25" and the 12" jukebox. It interfaces with the VOS-T for DEC system operation and the VOS-U for SUN system operation.

■ **QD650**

UNIBUS/Q-bus Supported • $8,723

■ **QS650**

UNIBUS/Q-bus Supported • $17,005

■ **VOS-T**

SCSI Supported • UNIBUS/Q-bus Supported • $1,995

■ **VOS-T**

SCSI Supported • UNIBUS/Q-bus Supported • $1,995

The VOS-T features optical software that is a complete optical subsystem that requires no changes to current systems. It allows the optical WORM cartridge to emulate a true magnetic disk as well as a DEC "Files II" device.

Solid State Storage

Dataram Corporation

■ **DRD-202**

• $16,400+

■ **DRD-204**

• $12,500+

■ **DRD-207**

• $16,700

This model was designed for all VAX 11 Series under the VMS and RSX operating systems and is also available with a dual porting option. It is capable of improving the performance of the existing CPU by 500% and is useful in I/O intensive applications.

Digital Instruments Corporation

■ **QMDISK/Internal • $3,130**

Quad width 4MB hardware subsystem with DEC VM: type device handler. For use with Q-bus systems (LSI-11, 16- to 22-bit) under RT-11, TSX+, I/O page mapped. Device may be shared, made bootable, linked with Fortran, etc., for extemely fast file access. Up to eight boards (32MB) may be installed in one backplane, fully auto configured, and accessible as one logical device. Acceleration may be increased three times when used as a boot-device and/or in CAD/CAM or other I/O intensive environments. Application areas include electronic imaging, CAD/CAM, data acquisition and hostile environments.

FPS Computing

■ **P64/110**

The 64/110 unit is a solid-state disk designed for FPS Computing's M64 CPU Series.

Imperial Technology, Inc.

■ **MegaCard-MP**

The MegaCard-MP is a complete solid state disk emulating board that plugs directly into a backplane (two to five slots) interfacing to the UNIBUS. Also available with a multiport option.

■ **MegaCard-RL**

The MegaCard-RL is a complete solid state disk emulating board that plugs directly into a backplane (two to five slots) interfacing to the UNIBUS.

■ **MegaCard-RL**

The MegaCard-RL is a complete solid state disk emulating board that plugs directly into a backplane (two to five slots) interfacing to the UNIBUS.

■ **MegaRam**

■ **MegaRam-VX**

The MegaRam and MegaRam-VX are seven inch high rack-mountable modules that may be daisy-chained to provide over 2GB of data storage.

■ **MG-K11**

■ **MG-L11**

The MG-K11 and L-11 are solid state, nonrotating storage systems that interface to the CPU as if they were rotating disks. Equipped with internal microprogrammable controllers to provide several different emulations of DEC compatible disk drives.

Memory Sciences Corporation

■ **FASTOR**

• $12,000+

This product is most effective when used (1) as system disks, (2) to store data that is accessed constantly, (3) as temporary work storage for sorting, compiling, and linking, or (4) for database management systems.

Pioneer Communications of America, Inc.

■ **CD-ROM Minichanger**

The CD-ROM Minichanger is equipped with a six disk magazine cartridge.

See First Technology, Inc.

■ **RDC-16**

■ **RDE-32**

System Industries

■ **MegaCard-MP**

• $10,500+

Add-in high-speed solid state disks with MSCP emulation for UNIBUS and Q-bus systems. Provides head positioning times and high transfer rates. Optional high speed interface available. The transfer rate for Q-bus systems is 3.3Mbps.

■ **MegaCard-RL**

• $7,300+

Add-in solid state disk for UNIBUS systems, providing RL01 and RL02 emulations. Provides significant throughput increases. Optional high-speed interface available.

■ **MegaRam-K11**

• $10,600+

The MegaRam-K11 is a solid state, nonrotating storage system which interfaces to the DEC CPU as if it were a rotating disk providing significant improvements in I/O throughput. It is equipped with an internal microprogrammable controller, providing several different emulations of DEC compatible disk drives.

■ **MegaRam-L11**

• $10,600+

The MegaRam-L11 is a solid state disk storage system that appears to the DEC CPU as a standard RL01/02 device. It provides significant improvements in system throughput.

■ **MegaRam-SDI**

• $18,050+

First solid state disk to provide direct connection to any DSA controller, including HSC and KDB50, for significantly improved I/O throughput performance. The access time is 1.25 milliseconds.

■ **MegaRam-VX**

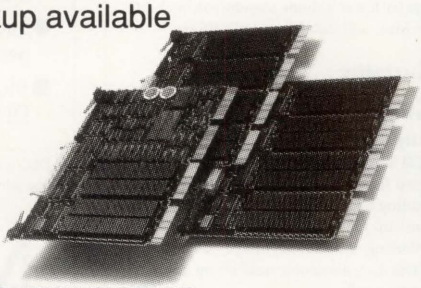
• $14,00+

A modular, MSCP compatible solid state disk for UNIBUS and Q-bus sytems that significantly improves I/O throughput performance. Optional high speed interface available.

THE FASTEST RAM DISK in the world for DEC Q-bus &Unibus computers

- Available from 16MB to 512 MB
- Ideal for use in hostile environments
- MILITARY and MANUFACTURING USES
- Fully emulates * MSCP protocol
- Eliminates rotational latency & seek time
- NOW cost effective
- Battery backup available

"faster than a spinning platter"



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"the RAM disk &RAM drive company"
*VAX, MSCP are trade marks of DIGITAL EQUIPMENT CORPORATION

TAPE CONTROLLERS

Model	# of Supported Drives	Size of Supported Drive	Drive Interface	Read Reverse Capability	Multiport Capability	Host Interface	Data Buffer Size (Bytes)	MTBF (hrs)	Transfer Rate (bps)	TMSCP Emulation	Warranty	Price
Aviv Corporation 617 933-1165												
TFC 835A	4		STC			UNIBUS	64K		1.25M			
TFC 835B	4		Pertec			UNIBUS	64K		1M			
TFC 835C	4		STC			UNIBUS	64K		1.5M			
TFC 845	4	1/2"	STK/Pertec	Y	Y	UNIBUS	64K	60K	3M		1 yr	$2,100+
TFC 845C-1	4		STK	Y	Y	UNIBUS	64K	60K	3M		1 yr	
TFC 845C-2	4		STK	Y	Y	UNIBUS	64K	60K	3M		1 yr	$3,300
TFC 845D-1	4	8mm	SCSI	Y	Y	UNIBUS	64K	60K	3M		1 yr	$1,800
TFC 845D-2	4		SCSI	Y	Y	UNIBUS	64K	60K	3M		1 yr	
TFC 9035	4		STK/Pertec	Y	Y	Q-bus	64K	60K	3M		1 yr	$2,155
TFC 919	1		Pertec	Y	Y	Q-bus	16K	60K	1M		1 yr	$1,400
TFC 925	4		STC/Pertec	Y	Y	Q-bus	8K	60K	1.25M			$2,800
TFC 925C	4		STK	Y	Y	Q-bus	8K	60K	1.5M		1 yr	$2,900
TFC 935	4		STK/P/SCSI	Y	Y	Q-bus	64K	60K	3M		1 yr	$2,000+
TFC 935C-1	4		STK	Y	Y	Q-bus	64K	60K	3M		1 yr	
TFC 935C-2	4		STK	Y	Y	U/Q	64K	60K	3M		1 yr	$3,300
TFC 935D-1	4		SCSI	Y	N	Q-bus	64K	60K	3M		1 yr	$1,800
TFC 935D-2	4		SCSI	Y		Q-bus	64K	60K	3M		1 yr	
CMS Enhancements, Inc. 714 259-9555												
CQS-20T	7		SCSI			Q-bus	64K		2M	Y		$1,020
CUS-70T	7	8mm	SCSI			UNIBUS	64K		2M	Y		$1,244
DILOG 714 937-5700												
SQ703A	4	8mm	SCSI		Y	Q-bus	64K		1.5M	Y	1 yr	$1,500
SQ713A	4	8mm	SCSI		Y	Q-bus	64K		2-4M	Y	1 yr	$1,675
SU723A	4	8mm	SCSI		Y	UNIBUS	64K		1.5M	Y	1 yr	$1,875
IPS Technology 713 870-0880												
IPS 8715						U/B						$14,000+
Miltope Corporation 516 420-0200												
TC 11	4			N		UNIBUS					120 d	$20,500
Secondary Computer Storage 215 362-7050												
6000 TAPESTORE	4		SCSI									$3,000+
Sigma Information Systems 714 630-6553												
STC-TQK11/SCSI			SCSI			UNIBUS				Y		$1,600
STC-TQK11A			QIC-02			UNIBUS	32K			Y		$1,600
STC-TSV11	2					Q-bus	32K			Y		$1,495
Spectra Logic Corporation 408 734-8121												
S-121 +	4		Pertec				64K		1M			
System Industries 408 432-1212												
9700 FCU	3		SI 9700-53			UNIBUS						
Telebyte Technology, Inc. 516 423-3232												
TDX-1050	4		RS232	N	N	UNIBUS	4K				1 yr	$2,000
U. S. Design Corporation 301 577-2880												
1158-01	8					UNIBUS						$2,000

TAPE CONTROLLERS

Model	# of Supported Drives	Size of Supported Drive	Drive Interface	Read Reverse Capability	Multiport Capability	Host Interface	Data Buffer Size (Bytes)	MTBF (hrs)	Transfer Rate (bps)	TMSCP Emulation	Warranty	Price
Wespercorp 714 261-0606												
TC-130	1-8		P/K/C	N	N	UNIBUS		40K		N		$4,000
TC-131	1-8		P/K/C	N	N	UNIBUS	33	40K			1 yr	$3,500
TC-151	1-8	1/2"	P/K/C	N	N	UNIBUS	18	40K			1 yr	$3,300

TAPE COUPLERS

Model	# of Supported Drives	Size of Supported Drive	Host Interface	Type of Drive	On-board Diagnostics	Tape Density (bpi)	Max Data Rate (bps)	Buffer Size (Bytes)	Tape Speeds (ips)	Board Size	Warranty	Price
DILOG 714 937-5700												
DQ132	4	1/2"	Q-bus	9T	Y	800-6250	450K	1K	12.5-100	Q	1 yr	$1,200
DQ142	4	1/2"	Q-bus	9T	Y	800-6250	450K		12.5-125	Q	1 yr	$1,675
DQ152	1	1/2"	Q-bus	9T	Y	800-6250	1.25M	64K	12.5-100	D	1 yr	$1,200
DQ153	4	1/2"	Q-bus	9T	Y	800-6250	1.25M	64K	12.5-200	D	1 yr	$1,200
DQ3153	4	1/2"	Q-bus	9T	Y	800-3200	1.25M	64K	12.5-200	Q	1 yr	$1,350
DU132	4	1/2"	UNIBUS	9T	Y	800-3200	450K	1K	12.5-100	Q	1 yr	$1,550
DU142	4	1/2"	UNIBUS	9T	Y	800-6250	1M	4K	12.5-125	Q	1 yr	$2,000
Emulex Corporation 714 662-5600												
QT13	1-2	1/2"	Q-bus	9T	Y	800-6250	1M	64K	12.4-140	Q	1 yr	$1,095
QT14	1-2	1/2"	Q-bus	9T	Y	800-6250	1M	64K	12.5-140	Q	1 yr	$1,395
TC13	1-4	1/2"	U/B	9T	Y	800-6250	800K	3.5K	12.5-125	Q	1 yr	$1,700
TC7000	1-8	1/2"	UNIBUS	9T	Y	800-6250	1.5M	512K	12.5-125	XH		$4,500
Wespercorp 714 261-0606												
TC-30	8	1/2"	UNIBUS	9T	N	800-6250	640K	64K		Q	1 yr	$1,575
TC-50	8	1/2"	Q-bus	9T	N	800-6250	640K	64K	125	Q	1 yr	$1,575
TD-IV	1	1/2"	UNIBUS	9T	Y	1600/6250		64K	125	H	1 yr	$1,925
TDQ-III	1	1/2"	Q-bus		Y	1600/6250	1.67M	64K	125	Q	1 yr	$1,375
TDQ-IV	1	1/2"	Q-bus		Y	1600/6250	1.67M	64K	125	Q	1 yr	$1,375

TAPE DRIVES

Model	Size of Drive	Type of Drive	Drive Interface	Storage Capacity (Bytes)	Data Transfer Rate (bps)	Recording Densities (bpi)	Low Speed Streaming (ips)	High Speed Streaming (ips)	Host Interface	TMSCP Emulation	MTBF (hrs)	Price
3M Corporation												
CompacTape	.5"	Cart		95M		6667						
American Digital Systems, Inc. 508 443-7711												
MasterTape II	8mm	Cart	SCSI	2332M	1.5M				U/Q		>20K	$4,995
Applied Data Communications 714 731-9000												
CD-2500	.5"	Cart	P/SCSI	46M	384K	1600			UNIBUS			

The advantage to our 8mm tape drive is written across our face.



Get the tape backup system that makes it easy to find out the facts. Our CY-8200 has a 2-line, 40 column LCD option that gives you *complete* status information. In easy-to-read, precise format, you see transfer rate, command under execution, unused tape in megabytes, and the ECC rate indicating backup integrity. No guesswork... just the facts.

State-of-the-art helical scan technology. You get all the advantages of advanced helical scan technology, operating speeds of up to 15 Mb per minute, 2.3 Gb of formatted capacity on a single 8mm tape, major time savings from unattended backup, and tremendously reduced media and storage expense. All at an unsurpassed price/performance ratio.



The industry's most advanced 8mm backup system.

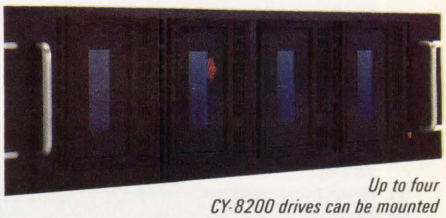
True "plug and play" compatibility with...

Alpha Micro	DEC	Prime
Altos	NCR	Pyramid
Apollo	PC/AT-MS-DOS	Sun
Data General	PC/AT-SCO Xenix	Unisys

...and more

Total flexibility, total support. The CY-8200 can be configured to meet all your site requirements. Choose from tabletop or 19″ rack mounting options, hard disk combinations, and cable lengths up to 80 feet. The CY-8200 subsystems provide turnkey solutions for a wide variety of systems, such as true plug-and-play compatibility with direct interface to Pertec standard 9-track tape controllers.

And nobody matches our support. The CY-8200's full 12-month warranty includes unlimited technical support, direct from our in-house engineering and technical support group.



Up to four CY-8200 drives can be mounted in our standard 19″ rack.

For full information on the CY-8200 high-speed, high-capacity, 8mm tape subsystem call us at **(804) 873-0900.**

CONTEMPORARY
CYBERNETICS
Group

11830 Canon Boulevard
Newport News, Virginia 23606
(804) 873-0900
FAX (804) 873-8836

TAPE DRIVES

Model	Size of Drive	Type of Drive	Drive Interface	Storage Capacity (Bytes)	Data Transfer Rate (bps)	Recording Densities (bpi)	Low Speed Streaming (ips)	High Speed Streaming (ips)	Host Interface	TMSCP Emulation	MTBF (hrs)	Price
Applied Data Communications 714 731-9000 (continued)												
CD-2500	.5"	Cart	P/SCSI	92M	384K	3200			UNIBUS			
CD-2500	.5"	Cart	P/SCSI	180M	632K	6250			UNIBUS			
CD-2500	.5"	Cart	SCSI	94.5M	45K	6667			UNIBUS			$83,000
Cipher Data Products, Inc. 619 693-7084												
F880	.5"	9T	SCSI*	46M		1600	25	100			5500	$4,000
F880-II	.5"	9T	SCSI*	92M	160K	3200		50			5500	
M890	.5"	9T	SCSI*	46M	120K	1600					5500	$5,100
M890	.5"	9T	SCSI*	92M	120K	3200					5500	$5,100
M891	.5"	9T	SCSI*	46M	384K	1600		75			5500	$5,100
M891	.5"	9T	SCSI*	92M	384K	3200		75			5500	$5,100
M990	.5"	9T	SCSI*	46M	552K	1600					10K	$9,000
M990	.5"	9T	SCSI*	96M	552K	3200					10K	$9,000
M990	.5"	9T	SCSI*	180M	552K	6250					10K	$9,000
ST150S	.5"	Cart	SCSI	180M	87K	12,500		90	UNIBUS		12K	
Digi-Data 301 498-0200												
2010	.5"	9T		46M	160K	1600		100				$2,850
2020	.5"	9T		92M	160K	1600/3200	50	100				$3,250
2111	.5"	9T		46M	160K	1600		100				$3,450
2111	.5"	9T		92M	160K	3200		50				$3,450
2112	.5"	9T		46M	160K	1600		100				$3,450
2112	.5"	9T		92M	160K	3200		50				$3,450
2121	.5"	9T		46M	160K	1600		100				$3,850
2121	.5"	9T		92M	160K	3200		50				$3,850
2122	.5"	9T		46M	160K	1600		100				$3,850
2122	.5"	9T		92M	160K	3200		50				$3,850
First Computer Corporation 312 920-1050												
TS07	.5"	9T				1600						$6,745
TS08	.5"	9T				1600						$7,100
TS09	.5"	9T				1600						$7,743
TS10	.5"	9T				1600/3200						$7,814
TS88VC	.5"	9T				1600/6250						$13,550
TSV07	.5"	9T				1600						$8,647
TSV08	.5"	9T				1600						$9,003
TSV09	.5"	9T				1600						$9,644
TSV10	.5"	9T				1600/3200						$9,716
Innovative Data Technology (619) 587-0555												
TD 1052	.5"	R-R		45M	72K	1600/800			UNIBUS		10K	$5,400+
TD 1053	.5"	R-R		45M	72K	1600/800					10K	$5,400+
TD 1054	.5"	R-R		45M	72K	1600/800			UNIBUS		10K	$5,400+
TD 1751	.5"	R-R		45M	120K	1600/800					10K	$7,100+
TD 1752	.5"	R-R		45M	120K	1600/800					10K	$7,100+
TD 1753	.5"	R-R		45M	120K	1600/800					10K	$7,100+
TD 1754	.5"	R-R		45M	120K	1600/800			UNIBUS		10K	$7,100+
TD1012-1	.5"	R-R		45M		1600			UNIBUS		6.5K	$3,250
TD1012-2	.5"	R-R		45M		1600		100	UNIBUS		6500	$3,250
TD1012-3	.5"	R-R		45M	160K	1600			UNIBUS		6500	$3,250
TD1051	.5"	R-R		45M	72K	1600/800			UNIBUS		10K	$5,400+

TAPE DRIVES

Model	Size of Drive	Type of Drive	Drive Interface	Storage Capacity (Bytes)	Data Transfer Rate (bps)	Recording Densities (bpi)	Low Speed Streaming (ips)	High Speed Streaming (ips)	Host Interface	TMSCP Emulation	MTBF (hrs)	Price
Kennedy Company 714 770-1100												
9000	.5"	7/9T	Kennedy	69M	72K	800/1600			UNIBUS		>6K	$5,100+
9100	.5"	7/9T	Kennedy	69M	120K	800/1600			UNIBUS		>6K	$6,500+
9300	.5"	7/9T	Kennedy	69M	200K	800/1600			UNIBUS		>6K	$7,550+
9400	.5"	9T	STC/T/P	180M	281K	800-6250			UNIBUS		>10K	$12,000
9600A	.5"	9T	Pertec	138M	320K	800-3200	50	100	UNIBUS		>7K	$5,300
9602	.5"	9T	SCSI	138M	320K	800-3200	50	100	UNIBUS		>7K	$6,300
9610	.5"	9T	Pertec	270M	760K	800-6250	50	100	UNIBUS		>7K	
9650	.5"	9T	Pertec		320K	800-3200	50	100	UNIBUS		>7K	$5,500
9652	.5"	9T	SCSI	138M		800-3200	50	100	UNIBUS		>7K	$6,500
9660	.5"	9T	Pertec	270M	625K	800-6250	50	100	UNIBUS		>7K	
9662	.5"	9T	SCSI	270M	625K	800-6250	50	100	UNIBUS		>7K	
9700	.5"	7/9T	Kennedy	13.44M	40K	800/1600			UNIBUS		>5K	$4,050+
9800	.5"	7/9T	Kennedy	230M	40K	800/1600			UNIBUS		>6K	$4,500+
Laser Magnetic Storage 719 593-7900												
Keystone-92181	.5"	R-R	P/SCSI	48M	1.25M	1600	25	100	UNIBUS		10K	$3,215+
Keystone-92185	.5"	R-R	P/SCSI	180M	1.25M	1600/6250	25	75	UNIBUS		10K	$6,880+
Keystone-92815-01	.5"	R-R	SCSI						U/Q			
Keystone-92815-02	.5"	R-R	SCSI						U/Q			
Keystone-92815-04	.5"	R-R	SCSI						U/Q			
Keystone-92815-05	.5"	R-R	SCSI						U/Q			
Keystone-92815-15	.5"	R-R	SCSI						U/Q			
Patriot	.5"	Cart	SCSI	240M	250K	12,700		79			20K	$1,250
Megatape Corporation 818-357-9921												
GT-88/1	8mm	Cart	Pertec	2G	246K	54,000					20K	
GT-88/2	8mm	Cart	Pertec	2G	246K	54,000		.429		Y	20K	
Miltope Corporation 516 420-0200												
AT-1161	.5"	7/9T				800-1600						$35,900
Secondary Computer Storage 215 362-7050												
6221	.25"	16T				10,000			UNIBUS			$4,800
6421	.25"	10T				10,000			UNIBUS			$5,000
System Industries 408 432-1212												
9621	.5"	9T				6250						
9625	10.5"	9T		180M	80K	1600/6250		100			>5K	
9700-53	.5"	9T				800-6250		125	UNIBUS			
SI 2480					3M						18K	$85,000
System Technology Associates 713 440-8340												
GT-8	8mm	Cart	SCSI/Pertec	2.2G	246K	43,200	25	120			10K	
Telebyte Technology, Inc. 516 423-3232												
TDX-45	.5"	9T	S/IEEE-488	44M		800/1600			UNIBUS		4500	$6,000
TDX-4500	.5"	9T	SCSI/IEEE-488	80M		800-3200	50	100	UNIBUS			$6,000
TDX-50	.5"	9T	S/IEEE-488	44M	80K	800/1600			UNIBUS		8500	$5,000+
TDX-75	.5"	9T		44M	120K	800/1600			UNIBUS		5100	$7,000+
Winchester Systems, Inc. 617 933-8500												
2G			SCSI	2G	246K							
Streaming Cartridge	.25"	Cart	SCSI	500M	90K						8K	

IF YOU'RE NOT BACKING UP WITH MEGATAPE, YOU'RE MISSING THE BUS.



THE ONLY VAXBI BUS BACKUP DEVICE YOU CAN BUY.

It's sort of ironic that so many big, powerful VAX systems have to get by with little, slow cartridges or reel-to-reel drives for disk backup.

Wouldn't it be great if somebody offered a high-capacity cartridge drive with a direct, high-performance attachment to the VAXBI Bus?

Now, somebody does. Presenting MegaTape's GT-88 VAXBI 8mm cartridge subsystem. A breakthrough that lets high-end VAX users enjoy the enormous capacity of 8mm without bus adapters or other bottlenecks. The result is far greater capacity and convenience than 9-track streamers —at a fraction of the cost.

Each GT-88 cartridge stores up to 2 gigabytes of data, costs around $10, and fits easily into your shirt pocket.

Exabyte-compatible data formatting lets you interchange cartridges with virtually any other 8mm subsystem.

MegaTape's proprietary VAXBI controller is completely TMSCP-compatible, and lets your system zip through backup chores using your standard VMS or Ultrix backup utilities.

NOW: 8MM ON VAXBI BUS.
ANOTHER MEGATAPE EXCLUSIVE!

The GT-88 VAXBI subsystem offers something else that's crucially important, too: support capability built on nearly a decade of advancing the state of the backup art.

So if you'd like your VAX backups to really fly, there's only one place to catch the Bus: MegaTape.

P.S. We also offer the industry's "best buy" QBUS and Unibus subsystems, too!

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MEGATAPE CORPORATION
1041 Hamilton Road
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Telefax: (818) 357-2369

MegaTape

THE GREAT LEAP FORWARD IN BACKUP.

TAPE SUBSYSTEMS

Model	# of Supported Drives	# of Supported Controllers	Recording Densities (bpi)	Type of Drive	Size of Drive	Device Interface	Tape Speeds (ips)	Storage Capacity (Bytes)	Host Interface	Buffer Size (Bytes)	TMSCP Emulation	Price
American Data Systems Marketing 617 341-0171												
GCR							75-200		U/B			$26,000+
GCR Streamer									UNIBUS			$8,600+
TDU 2435				R-R					UNIBUS			$23,900
TDU 2436				R-R					UNIBUS			$28,500
TDU 2442				R-R					UNIBUS			$10,000
TDU 2444				R-R					UNIBUS			$12,000
Applied Digital Systems 716 377-7000												
ADS 1500			1600/3200				20-100					$4,950
Aviv Corporation 617 933-1165												
TFS 1953	4	1	800-6250	9T		STK	50-125		U/Q/B			
TFS 2436	4	1	1600/6250	9T		STK	200		U/Q/B			
TFS 2921	4	1	1600/6250	9T		STK/Pertec	50		U/Q			
TFS 2925	4	1	1600/6250			STK/Pertec	100		U/Q	256K		
TFS 3480	4	1	1600	18T	.5"	STK/SCSI		200M	U/Q/B	3M	Y	
TFS 8200-SB		1		9T	8mm	SCSI		2.3G		256K		$3,800
TFS 845D-8200	4	1			8mm			2.3G	UNIBUS	320K		$4,950
TFS 9270	4	1	800-6250	9T		STK/Pertec	75		U/Q	256K		
TFS 935D-8200	4	1			8mm	SCSI		2.3G	Q-bus	320K		$4,500
TFS 990	4	1	1600-6250			Pertec			U/Q	256K		
CMS Enhancements, Inc. 714 259-9555												
CXB22/Q			43200		8mm	SCSI	150	2.2G	Q-bus	256K	Y	$5,528
CXB22/U			43200	Cart	8mm	SCSI	150	2.2G	UNIBUS	256K	Y	$5,856
Codar Technology, Inc. 303 776-0472												
809MT	8	4	1600	9T	.5"		25-100	46M	U/Q		Y	
Contemporary Cybernetics Group, Inc. 804 873-0900												
CY 8200-PIF			35m	Cart	8mm	Pertec	150	2.3G	U/Q	1.25M		
CY 8200-Q11			35m	Cart	8mm	SCSI	150	2.3G	Q-bus	256K		
CY 8200-Q81			35m	Cart	8mm	SCSI	150	2.3G	Q-bus	256K	Y	
CY 8200-U11			35m	Cart	8mm	SCSI	150	2.3G	UNIBUS	256K		
CY 8200-U81	4		35m	Cart	8mm	SCSI	150	2.3G	UNIBUS	256K	Y	
Digi-Data 301 498-0200												
2000U-TM 2010				9T				46M				$4,395
2000U-TM 2020				9T				46M				$4,795
2000U-TM 2020				9T				92M				$4,795
2000U-TM 2112				9T				46M				$4,995
2000U-TM 2112				9T				92M				$4,995
2000U-TM 2122				9T				46M				$5,395
2000U-TM 2122				9T				92M				$5,395
2000U-TS 2010				9T				46M				$4,195
2000U-TS 2010				9T				46M				$4,595
2000U-TS 2020				9T				92M				$4,595
2000U-TS 2020				9T				46M				$4,795
2000U-TS 2112				9T				92M				$4,795
2000U-TS 2122				9T				46M				$5,195
2000U-TS 2122				9T				92M				$5,195
GIGASTORE				9T	.5"	Pertec	7/16	2.5G		256K		$4,780
GIGASTORE/UVMS				9T	.5"	Pertec	7/16	2.5G		256K		$6,675

TAPE SUBSYSTEMS

Model	# of Supported Drives	# of Supported Controllers	Recording Densities (bpi)	Type of Drive	Size of Drive	Device Interface	Tape Speeds (ips)	Storage Capacity (Bytes)	Host Interface	Buffer Size (Bytes)	TMSCP Emulation	Price
DILOG 714 937-5700												
3480				Cart	.5"			2.3G	U/Q	512K		$15,000
MVO-K	1		35m	Cart	8mm	SCSI	.429	2.3G	U/Q	256K	Y	
SSSO-K	1	1	35m	Cart	8mm	SCSI	.429	2.3G	U/Q	256K	Y	$4,950
T3834	1			Cart	.5"	Pertec	111	570M	U/Q	512K	Y	$11,610
T9610	1			9T	10.5"	Pertec	50-100	180M	U/Q		Y	$10,755
T990	1			9T	14"	Pertec		180M	U/Q	64K	Y	$9,945
Emulex Corporation 714 662-5600												
EH23				Cart	8mm	SCSI		2.3G	Q-bus			
S13C04/J	2	1	1600	Cipher			45-300				N	$8,920+
S13C04/Q	1	1	1600	Cipher			45-300				Y	$8,800
S13C07/J	2	1	1600-6250	Cipher			70-100				N	$13,655+
S13C07/Q	2	1	1600-6250	Cipher			70-100				Y	$13,545
Exabyte Corporation 303 442-4333												
EXB-8200	1	1	54K	Cart	8mm	SCSI	.43	2.3G	U/Q	256K	Y	$3,850
Gigatrend, Inc. 619 931-9122												
GIGA-1230	8	5		Cass	4mm	SCSI/Pertec	.32	1G	U/Q	512K	Y	
Group Three Electronics 408 747-1800												
4489			1600/3200	9T	.5"	Pertec		90M	Q-bus			
4490			1600/3200	R-R	.5"	Pertec		180M	Q-bus			
Honeywell 303 773-4491												
VLDS								5.2G				
Innovative Data Technology 619 587-0555												
MTS1012-1/130	1		1600	9T	7/10.5"	Pertec		45M	UNIBUS	1K		$5,995
MTS1012-2/130	1		1600	9T	7/10.5"	Pertec		45M	UNIBUS	1K		$5,995
MTS1012-3/130	1		1600	9T	7/10.5"	Pertec		45M	UNIBUS	1K		$5,995
MTS1053/130	4		800/1600	7/9T	.5"	Pertec	45	45M	UNIBUS	1K		$7,500
MTS1054/130	4	8	800/1600	7/9T	.5"	Pertec	45	45M	UNIBUS	1K		$7,450
MTS1753/130	4		800/1600	7/9T	.5"	Pertec	75	45M	UNIBUS	1K		$8,800
MTS1754/130	4		800/1600	7/9T	.5"	Pertec	75	45M	UNIBUS	1K		$8,750
IPS Technology 713 870-0880												
8715							24-200		U/B			$14,000+
Megatape Corporation 818-357-9921												
GT-88/3	4	1	54K	Cart	8mm		150	2G	Q-bus	256K	Y	
GT-88/4	4	1	54K	Cart	8mm		150	2G	UNIBUS	256K	Y	
GT-88/5	4	1	54K	Cart	8mm		150	2G	Q-bus	256K	Y	
GT-88/6	7	1	54K	Cart	8mm		150	2G	BIbus	256K	Y	
MT-750	1	1		Cart	.5"		120	630M	BIbus	512K	Y	
Micro Technology, Inc. 714 632-7580												
MA-100	4		1600/6250	9T		SCSI	50-100	145M				$35,000
MA-200	4	2	1600/6250	9T			200	145M	U/Q	512K	Y	$58,000
MA-24	16	2	35m	Cart	5.25"		150	4G	U/Q	768K	Y	$28,500
MTQ-223	2	1	35m	8mm	5.25"		150	4G	Q-bus	768K	Y	$14,000
MTQ-23	1	1	35m	Cart	5.25"		150	2G	Q-bus	768K	Y	$7,500
MTU-223	2	1	35m	8mm	5.25"		150	4G	UNIBUS	768K	Y	$14,500
MTU-23	1	1	35m	8mm	5.25"		150	2G	UNIBUS	768K	Y	$8,500
Scientific Micro Systems, Inc. 415 964-5700												
SMS 1000-10	1			Cart	.25"		90	120M	Q-bus			

TAPE SUBSYSTEMS

Model	# of Supported Drives	# of Supported Controllers	Recording Densities (bpi)	Type of Drive	Size of Drive	Device Interface	Tape Speeds (ips)	Storage Capacity (Bytes)	Host Interface	Buffer Size (Bytes)	TMSCP Emulation	Price
SLR Associates 408 984-7588												
SRS-8	7	2	43200	Cass	8mm			2.3G	Q/U/B	256K	Y	
Summus Computer Systems 713 492-6611												
448Tape				18T				246M	U/Q		Y	
DataTape									UNIBUS		Y	$4,900+
GigaTape-1.2				Cass	4mm			2.33G				$6,995
GigaTape-1000	8		14K	Cass	4mm		150	125G	UNIBUS	256K	Y	
GigaTape-442	8		14K	Cass	4mm		150	2.33G	UNIBUS	512K	Y	$4,200+
GigaTape-452	8		14K	Cass	4mm		150	1.2G	UNIBUS	512K	Y	
GigaTape-JBL 125	8		14K	Cass	4mm		150	125G	UNIBUS	256K	Y	
MassTape	8		1600-6250	9T	.5"		25-200	2.33G	UNIBUS	512K	Y	$1,900+
TECEX 714 632-6672												
TX-2200								2G				$17,950
TX-8200M								2G				$6,995
Total Tec Systems, Inc. 201 906-6500												
TT75013				Cart	.5"							
TT96013				R-R								
Transitional Technology, Inc. 714 744-1030												
CTS-8	4+		43200	Cass	8mm		150	2.3G	U/Q	256K	Y	$5,395+
CTS-8000	4+		43200	Cass	8mm		150	2.3G	U/Q	256K	Y	$6,595+
Trimarchi, Inc. 814 234-5659												
QTA-EXB8200	1			Cart		SCSI		2.3G	U/Q		Y	$4,395

Extra Copies @ $75

Call Lori Ulbrich at

(215) 957-1500. ($75)

Tape Controllers

Aviv Corporation

■ **TFC 835A**
4 Supported Drive(s) • STC Interface(s) Supported • UNIBUS Supported

■ **TFC 835B**
4 Supported Drive(s) • Pertec Interface(s) Supported • UNIBUS Supported

■ **TFC 835C**
4 Supported Drive(s) • STC Interface(s) Supported • UNIBUS Supported
The TFC 835A, 835B, and 835C are programmed to delay tape acceleration until a preset amount of data is transferred into the data buffer and then to interrupt as soon as the record is contained in the buffer on the controller.

■ **TFC 845**
4 Supported Drive(s) • 1/2" • STK/Pertec Interface(s) Supported • UNIBUS Supported • $2,100+
Compatible with DEC operating systems RSX-11, TSX-11 PLUS, RT-11, VMS, UNIX and ULTRIX. Compatible with all .5" GCR tape drives equipped with STK interface operating up to 125ips.

■ **TFC 845C-1**
4 Supported Drive(s) • STK Interface(s) Supported • UNIBUS Supported

■ **TFC 845C-2**
4 Supported Drive(s) • STK Interface(s) Supported • UNIBUS Supported • $3,300

■ **TFC 845D-1**
4 Supported Drive(s) • 8mm • SCSI Interface(s) Supported • UNIBUS Supported • $1,800

■ **TFC 845D-2**
4 Supported Drive(s) • SCSI Interface(s) Supported • UNIBUS Supported
The TFC 845C and 845D Series is compatible with DEC operating systems RSX-11, TSX-11 PLUS, RT-11, VMS, UNIX and ULTRIX.

■ **TFC 9035**
4 Supported Drive(s) • STK/Pertec Interface(s) Supported • Q-bus Supported • $2,155
Compatible with VMS and ULTRIX.

■ **TFC 919**
1 Supported Drive(s) • Pertec Interface(s) Supported • Q-bus Supported • $1,400

■ **TFC 925**
4 Supported Drive(s) • STC/Pertec Interface(s) Supported • Q-bus Supported • $2,800

■ **TFC 925C**
4 Supported Drive(s) • STK Interface(s) Supported • Q-bus Supported • $2,900

■ **TFC 935**
4 Supported Drive(s) • STK/Pertec/SCSI Interface(s) Supported • Q-bus Supported • $2,000+

■ **TFC 935C-1**
4 Supported Drive(s) • STK Interface(s) Supported • Q-bus Supported

■ **TFC 935C-2**
4 Supported Drive(s) • STK Interface(s) Supported • UNIBUS/Q-bus Supported • $3,300
The TFC 919, 925, 925C, 935, and 935C-1 are programmed to delay tape acceleration until a preset amount of data is transferred into the data buffer and then to interrupt as soon as the record is contained in the buffer on the controller.

■ **TFC 935D-1**
4 Supported Drive(s) • SCSI Interface(s) Supported • Q-bus Supported • $1,800
Programmed to delay tape acceleration until a preset amount of data is transferred into the data buffer and then to interrupt as soon as the record is contained in the buffer on the controller. Compatible with slower drives such as helical scan.

■ **TFC 935D-2**
4 Supported Drive(s) • SCSI Interface(s) Supported • Q-bus Supported
Programmed to delay tape acceleration until a preset amount of data is transferred into the data buffer and then to interrupt as soon as the record is contained in the buffer on the controller.

CMS Enhancements, Inc.

■ **CQS-20T**
7 Supported Drive(s) • SCSI Interface(s) Supported • Q-bus Supported1,020
Q-bus to SCSI controller that supports DMA block mode and utilizes error recovery algorithms to correct media errors that are concurrent with operating system back-up/restore operations to ensure data integrity.

■ **CUS-70T**
7 Supported Drive(s) • 8mm • SCSI Interface(s) Supported • UNIBUS Supported • $1,244
Intelligent UNIBUS to SCSI controller that supports 16KB data buffering, command queuing, standard SCSI bus arbitration, disconnect, reconnect, and all SCSI commands.

DILOG

■ **SQ703A**
4 Supported Drive(s) • 8mm • SCSI Interface(s) Supported • Q-bus Supported • $1,500
Features block mode memory capability, a 16 entry command queue, and a single ended, asynchronous interface. Also supports 9 track tape drives.

■ **SQ713A**
4 Supported Drive(s) • 8mm • SCSI Interface(s) Supported • Q-bus Supported • $1,675
Features block mode memory capability, a 16 entry command queue, and a single ended, asynchronous interface.

■ **SU723A**
4 Supported Drive(s) • 8mm • SCSI Interface(s) Supported • UNIBUS Supported • $1,875
Features an automatic self-test function that prevents critical data from being overwritten. Also supports 9 track tape drives.

IPS Technology

■ **IPS 8715**
UNIBUS/Bibus Supported • $14,000+
The IPS 8715 is also available as a subsystem.

Miltope Corporation

■ **TC 11**
4 Supported Drive(s) • UNIBUS Supported • $20,500
The TC 11 is MIL qualified.

Secondary Computer Storage

■ **6000 TAPESTORE**
4 Supported Drive(s) • SCSI Interface(s) Supported • $3,000+

Sigma Information Systems

■ **STC-TQK11/SCSI**
SCSI Interface(s) Supported • UNIBUS Supported • $1,600
Interfaces a SCSI cartridge tape drive to any DEC UNIBUS system with self-diagnositc features.

■ **STC-TQK11A**
QIC-02 Interface(s) Supported • UNIBUS Supported • $1,600

■ **STC-TSV11**
2 Supported Drive(s) • Q-bus Supported • $1,495

Spectra Logic Corporation

■ **S-121+**
4 Supported Drive(s) • Pertec Interface(s) Supported

System Industries

■ **9700 FCU**
3 Supported Drive(s) • SI 9700-53 Interface(s) Supported • UNIBUS Supported

Telebyte Technology, Inc.

■ **TDX-1050**
4 Supported Drive(s) • RS232 Interface(s) Supported • UNIBUS Supported • $2,000
The TDX-1050 features asynchronous and synchronous RS232 serial support up to 56Kbps, an intelligent controller, programmable & non-programmable modes, as well as bisynchronous transparent protocol.

U.S. Design Corporation

■ **1158-01**
8 Supported Drive(s) • UNIBUS Supported • $2,000

Wespercorp

■ **TC-130**
1-8 Supported Drive(s) • Pertec/Kennedy/CDC Interface(s) Supported • UNIBUS Supported • $4,000

■ **TC-131**
1-8 Supported Drive(s) • Pertec/Kennedy/CDC Interface(s) Supported • UNIBUS Supported • $3,500
Equipped with a bit slice microprocessor and provides an interface for a tape system operating at 25 to 125 ips. It requires Wespercorp's TM11 tape drive.

■ **TC-151**
1-8 Supported Drive(s) • 1/2" • Pertec/Kennedy/CDC Interface(s) Supported • UNIBUS Supported • $3,300
Standard Pertec interface for use with 1/2" start-stop unformatted tape drives. Emulates TM11/TU10.

Tape Couplers

DILOG

■ **DQ132**
4 Supported Drive(s) • 1/2" • 9T • Q-bus Supported • $1,200
Features DEC TS11/TSV05 emulation.

■ **DQ142**
4 Supported Drive(s) • 1/2" • 9T • Q-bus Supported • $1,675
Features DEC TS11/TSV05 emulation.

■ **DQ152**
1 Supported Drive(s) • 1/2" • 9T • Q-bus Supported • $1,200
Features DEC TS11/TSV05 emulation.

■ **DQ153**
4 Supported Drive(s) • 1/2" • 9T • Q-bus Supported • $1,200
TU driver compatible.

■ **DQ3153**
4 Supported Drive(s) • 1/2" • 9T • Q-bus Supported • $1,350
Designed for use with MicroVAX 3x00 systems. Features include TU driver compatibility, parity generation and verification, volume check, logical end of tape and data error status from the tape drive. Meets new EMI and RFI standards.

■ **DU132**
4 Supported Drive(s) • 1/2" • 9T • UNIBUS Supported • $1,550

■ **DU142**
4 Supported Drive(s) • 1/2" • 9T • UNIBUS Supported • $2,000

Emulex Corporation

■ **QT13**
1-2 Supported Drive(s) • 1/2" • 9T • Q-bus Supported • $1,095

■ **QT14**
1-2 Supported Drive(s) • 1/2" • 9T • Q-bus Supported • $1,395
The QT 13 and 14 are designed specifically for the MicroVAX 3500/3600. Toggle switches allow either TMSCP or TSV05 emulation. Perform in either standard 16 block mode DMA or adaptive DMA modes to allow bus releases in middle of block mode DMA transfers, allowing other CPU functions during high speed tape data transfers.

■ **TC13**
1-4 Supported Drive(s) • 1/2" • 9T • UNIBUS/Bibus Supported • $1,700
This is a high speed 8-bit bipolar microprocessor-based tape coupler for formatted tape transports. It supports both start/stop and streaming tape drives, although the two different types may not be mixed in one configuration.

■ **TC7000**
1-8 Supported Drive(s) • 1/2" • 9T • UNIBUS Supported • $4,500
This is a high speed bipolar microprocessor-based tape coupler for formatted tape transports. It supports both start/stop and streaming tape drives, although the two different types may not be mixed in one configuration. Emulates TGU77 and TEU77 functions.

WESPERCORP

■ **TC-30**
8 Supported Drive(s) • 1/2" • 9T • UNIBUS Supported • $1,575

■ **TC-50**
8 Supported Drive(s) • 1/2" • 9T • Q-bus Supported • $1,575
The TC-30 and -50 emulate the DEC TM11/TU10 tape system, and transparently control both start/stop and streaming drives. Require Wespercorp's TM11 tape drive as well as additional software for streaming applications.

■ **TD-IV**
1 Supported Drive(s) • 1/2" • 9T • UNIBUS Supported • $1,925
Emulates the DEC TS11 tape subsystem. Stores multiple records to ensure that streaming drives operate at 125ips and that start/stop drives with 6250bpi operate at 200ips.

■ **TDQ-III**
1 Supported Drive(s) • 1/2" • Q-bus Supported • $1,375
This model is for a Pertec interface. Emulating the DEC TS11 and TSV05 tape subsystems, the TDQ-III uses standard TS11 and TSV05 registers and vector to simplify system interface.

■ **TDQ-IV**
1 Supported Drive(s) • 1/2" • Q-bus Supported • $1,375
This model is compatible with a STC or Telex interface. Emulating the DEC TS11 and TSV05 tape subsystems, the TDQ-IV uses standard TS11 and TSV05 registers and vector to simplify system interface.

TAPE DRIVES

3M CORPORATION

■ **CompacTape**
.5" • Cartridge Tape

AMERICAN DIGITAL SYSTEMS, INC.

■ **MasterTape II**
8mm • Cartridge Tape • SCSI Interface(s) Supported • UNIBUS/Q-bus Supported • $4,995
The MasterTape II features helical scan technology and low and high streaming tape speeds of 246Kbps and 1.5Mbps, respectively.

APPLIED DATA COMMUNICATIONS

■ **CD-2500**
.5" • Cartridge Tape • Pertec/SCSI Interface(s) Supported • UNIBUS Supported
The CD-2500 is a standalone unit that transfers file images from source media to its 337MB internal disk drive and then to the target tape or optical drive. This unit duplicates two to 16 data cartridges simultaneously.

■ **CD-2500**
.5" • Cartridge Tape • Pertec/SCSI Interface(s) Supported • UNIBUS Supported

■ **CD-2500**
.5" • Cartridge Tape • Pertec/SCSI Interface(s) Supported • UNIBUS Supported

■ **CD-2500**
.5" • Cartridge Tape • SCSI Interface(s) Supported • UNIBUS Supported • $83,000
The CD-2500 Series features standalone units that transfer file images from source media to 337MB internal disk drives and then to the target tape or optical drives.

CIPHER DATA PRODUCTS, INC.

■ **F880**
.5" • 9T • SCSI* Interface(s) Supported • $4,000
The F880 Microstreamer is equipped with a microprocessor; however, a coupler is required. Read and write access times are 40ms at 25ips and 260ms at 100ips.

■ **F880-II**
.5" • 9T • SCSI* Interface(s) Supported
The F880 Microstreamer II is equipped with a microprocessor; however, a coupler is required. Read and write access times are 120ms.

■ **M890**
.5" • 9T • SCSI* Interface(s) Supported • $5,100

■ **M890**
.5" • 9T • SCSI* Interface(s) Supported • $5,100
The M890 is a cache tape drive that features both a microprocessor and a DMA controller, which supervise drive and data management functions of the cache. Consists of 64KB RAM. Requires a coupler.

■ **M891**
.5" • 9T • SCSI* Interface(s) Supported • $5,100

■ **M891**
.5" • 9T • SCSI* Interface(s) Supported • $5,100
The M891 is a cache tape drive and features both a microprocessor and a DMA controller, which supervise drive and data management functions of the cache. The cache consists of 64KB RAM. This tape drive requires a tape coupler.

■ **M990**
.5" • 9T • SCSI* Interface(s) Supported • $9,000
The M990 GCR cache tape drive is ideal for large volume disk file users requiring high performance. This device requires a coupler.

■ **M990**
.5" • 9T • SCSI* Interface(s) Supported • $9,000
Cache tape drive is ideal for large volume disk file users requiring high performance. Requires a coupler.

■ **M990**
.5" • 9T • SCSI* Interface(s) Supported • $9,000
The M990 GCR cache tape drive is ideal for large volume disk file users requiring high performance. This device requires a coupler.

■ **ST150S**
.5" • Cartridge Tape • SCSI Interface(s) Supported • UNIBUS Supported

DIGI-DATA

■ **2010**
.5" • 9T • $2,850

■ **2020**
.5" • 9T • $3,250

■ **2111**
.5" • 9T • $3,450
This model of the Series 2000 is available with 64KB of intelligent internal memory, which buffers the data into larger blocks and reduces the number of times the tape must actually be started, stopped, and repositioned. The access time is therefore reduced, improving performance.

■ **2111**
.5" • 9T • $3,450

■ **2112**
.5" • 9T • $3,450

■ **2112**
.5" • 9T • $3,450

■ **2121**
.5" • 9T • $3,850

■ **2121**
.5" • 9T • $3,850

■ **2122**
.5" • 9T • $3,850

■ **2122**
.5" • 9T • $3,850
The Series 2000 product line is fully compatible with DEC's TU80 and TSVO5 products. Mounting is horizontal, either rack-mountable or in an optional table-top chassis which sells for an additional $375.

FIRST COMPUTER CORPORATION

■ **TS07**
.5" • 9T • $6,745

■ **TS08**
.5" • 9T • $7,100

■ **TS09**
.5" • 9T • $7,743

■ **TS10**
.5" • 9T • $7,814

■ **TS88VC**
.5" • 9T • $13,550

■ **TSV07**
.5" • 9T • $8,647

■ **TSV08**
.5" • 9T • $9,003

■ **TSV09**
.5" • 9T • $9,644

■ **TSV10**
.5" • 9T • $9,716

INNOVATIVE DATA TECHNOLOGY

■ **TD 1052**
.5" • R-R • UNIBUS Supported • $5,400+

■ **TD 1053**
.5" • R-R • $5,400+

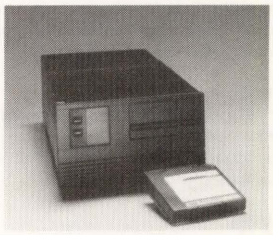
■ **TD 1054**
.5" • R-R • UNIBUS Supported • $5,400+

High Performance Half-Inch Reel and Cartridge.

cipher®



M990 ½" Open Reel
- High performance for data interchange and backup applications.
- 1600/3200/6250 BPI read/write densities.
- Transfer rates up to 632 KB.
- Auto load tape transport.
- "Error Free" interface.
- Write tapes on your PC, read them on your mini.



3000i Cartridge
- Up to 570MB per cartridge.
- Up to 896KB transfer rates.
- Compact eight inch form factor.
- Directly interchangeable with standard half-inch reel drives.

MESA TECHNOLOGY CORPORATION

9720 Patuxent Woods Dr. Columbia, MD 21046

Columbia, MD	*Lowell, MA*	*Milford, CT*
800/950-6372	800/999-6780	800/777-0984
301/290-8150	508/458-4100	203/878-6800
Morris Plains, NJ	*Philadelphia, PA*	*Charlotte, NC*
800/444-9238	800/333-8641	800/777-2340
201/538-8004	215/644-3100	704/529-1792
Springfield, MA	*Burlington, VT*	
800/999-6780	800/999-6780	
Raleigh, NC	*Richmond, VA*	
800/777-2340	800/777-2340	

An Electrocomponents Company

■ TD 1751
.5" • R-R • $7,100+

■ TD 1752
.5" • R-R • $7,100+

■ TD 1753
.5" • R-R • $7,100+

■ TD 1754
.5" • R-R • UNIBUS Supported • $7,100+

■ TD1012-1
.5" • R-R • UNIBUS Supported • $3,250

■ TD1012-2
.5" • R-R • UNIBUS Supported • $3,250

■ TD1012-3
.5" • R-R • UNIBUS Supported • $3,250

■ TD1051
.5" • R-R • UNIBUS Supported • $5,400+
Innovative Data Technology's line of tape drives supports both traditional tape storage and data interchange in the start/stop mode and disk backup in the streaming mode. Up to eight drives may be daisy-chained together.

Kennedy Company

■ 9000
.5" • 7/9T • Kennedy Interface(s) Supported • UNIBUS Supported • $5,100+
The 9000 features a built-in test panel and a 480DC power requirement option.

■ 9100
.5" • 7/9T • Kennedy Interface(s) Supported • UNIBUS Supported • $6,500+

■ 9300
.5" • 7/9T • Kennedy Interface(s) Supported • UNIBUS Supported • $7,550+
The 9100 and the 9300 feature built-in test panels. Please note that the storage capacity reflects an unformated value.

■ 9400
.5" • 9T • STC/Pertec Interface(s) Supported • UNIBUS Supported • $12,000
The 9300 features power up and off line diagnostics.

■ 9600A
.5" • 9T • Pertec Interface(s) Supported • UNIBUS Supported • $5,300

■ 9602
.5" • 9T • SCSI Interface(s) Supported • UNIBUS Supported • $6,300
The data access time is 100ms at 100ips for the 9600A and 9602 models.

■ 9610
.5" • 9T • Pertec Interface(s) Supported • UNIBUS Supported
The 9610 features extensive power up and off line diagnostics. The data read access times at 50ips and 100ips are .7ms. The read and write data access times for 800/1600/3200 formats are 4.2ms and 3.8ms, respectively. The read and write data access times for the 6250 format are 2ms and 1.2ms, respectively.

■ 9650
.5" • 9T • Pertec Interface(s) Supported • UNIBUS Supported • $5,500

■ 9652
.5" • 9T • SCSI Interface(s) Supported • UNIBUS Supported • $6,500
The 9650 and 9652 feature desktop enclosures as well as extensive power up and off line diagnostics. Data access times are 100ms at 100ips.

■ 9660
.5" • 9T • Pertec Interface(s) Supported • UNIBUS Supported

■ 9662
.5" • 9T • SCSI Interface(s) Supported • UNIBUS Supported
The 9660 and the 9662 feature extensive power up and off line diagnostics. Data read access times at 50ips and 100ips are .7ms. The read and write data access times for 800/1600/3200 formats are 4.2ms and 3.8ms, respectively. The read and write data access times for the 6250 format are 2ms and 1.2ms, respectively.

■ 9700
.5" • 7/9T • Kennedy Interface(s) Supported • UNIBUS Supported • $4,050+

■ 9800
.5" • 7/9T • Kennedy Interface(s) Supported • UNIBUS Supported • $4,500+
The 9700 and the 9800 feature 480DC power options.

Laser Magnetic Storage

■ Keystone-92181
.5" • R-R • Pertec/SCSI Interface(s) Supported • UNIBUS Supported • $3,215+
Keystone drives feature a short tape path (13") with air bearings and edge guides to ensure easy tape handling and threading. There is also a diagnostic panel to help detect operational faults. The data transfer rate for the unbuffered Pertec is 160Kbps. The storage capacity reflects an unformatted value.

■ Keystone-92185
.5" • R-R • Pertec/SCSI Interface(s) Supported • UNIBUS Supported • $6,880+
The maximum data transfer rates for the unbuffered Pertec and the buffered STC are 469Kbps and 1.4Mbps, respectively.

■ Keystone-92815-01
.5" • R-R • SCSI Interface(s) Supported • UNIBUS/Q-bus Supported

■ Keystone-92815-02
.5" • R-R • SCSI Interface(s) Supported • UNIBUS/Q-bus Supported

■ Keystone-92815-04
.5" • R-R • SCSI Interface(s) Supported • UNIBUS/Q-bus Supported

■ Keystone-92815-05
.5" • R-R • SCSI Interface(s) Supported • UNIBUS/Q-bus Supported

■ Keystone-92815-15
.5" • R-R • SCSI Interface(s) Supported • UNIBUS/Q-bus Supported
The Keystone-92815-xx Series features upgrade kits that include SCSI I/O boards, SCSI connector/bracket assemblies, signal cable assemblies and instructions. Prices for single-ended and differential kits are $4,600 and $5,000, respectively.

■ Patriot
.5" • Cartridge Tape • SCSI Interface(s) Supported • $1,250
The Patriot tape drive is capable of back-up for disks with up to 800MB. A 250 kilobyte per second transfer rate allows backup of 240MB in 17 minutes.

Megatape Corporation

■ GT-88/1
8mm • Cartridge Tape • Pertec Interface(s) Supported
The GT-88/1 is an 8mm back-up tape drive with 1.25MB of cache memory. It is compatible with most PERTEC controllers on a variety of DEC systems.

■ GT-88/2
8mm • Cartridge Tape • Pertec Interface(s) Supported
The GT-88/2 features the same capabilities as the GT-88/1 and also includes a front panel switch allowing two computers to share the GT-88. See pg. 134

Miltope Corporation

■ AT-1161
.5" • 7/9T • $35,900
The AT-1161 is MIL qualified.

Secondary Computer Storage

■ 6221
.25" • 16T • UNIBUS Supported • $4,800

■ 6421
.25" • 10T • UNIBUS Supported • $5,000

System Industries

■ 9621
.5" • 9T

■ 9625
10.5" • 9T
The 9625 is equipped with a tape transport, integral formatter/controller, power supply, and resident microdiagnostics. This drive also features a 256KB cache buffer to achieve optimum streaming performance. In addition, the data transfer rate is 312.5 Kbps at 50ips.

■ 9700-53
.5" • 9T • UNIBUS Supported

■ SI 2480
$85,000
This tape drive is compatible with the HSC controller.

System Technology Associates

■ GT-8
8mm • Cartridge Tape • SCSI/Pertec Interface(s) Supported
Features a tape speed of 150ips, a cache buffer up to 1.25MB, and is available with a GIGA-RIG tower cabinet that houses the GT-8 plus three 8" disk drives, each with over 1GB storage capacity.

Telebyte Technology, Inc.

■ TDX-45
.5" • 9T • RS232/IEEE-488 Interface(s) Supported • UNIBUS Supported • $6,000

■ TDX-4500
.5" • 9T • SCSI/IEEE-488 Interface(s) Supported • UNIBUS Supported • $6,000

■ TDX-50
.5" • 9T • RS232/IEEE-488 Interface(s) Supported • UNIBUS Supported • $5,000+

■ TDX-75
.5" • 9T • UNIBUS Supported • $7,000+

Winchester Systems, Inc.

■ 2G
SCSI Interface(s) Supported

■ Streaming Cartridge
.25" • Cartridge Tape • SCSI Interface(s) Supported

Tape Subsystems

American Data Systems Marketing

■ GCR
UNIBUS/BIbus Supported • $26,000+

■ GCR Streamer
UNIBUS Supported • $8,600+

■ TDU 2435
R-R • UNIBUS Supported • $23,900

■ TDU 2436
R-R • UNIBUS Supported • $28,500
The GCR Streamer, the TDU 2435 and 2436 are equipped with a 256KB intelligent cache buffer.

■ TDU 2442
R-R • UNIBUS Supported • $10,000

■ TDU 2444
R-R • UNIBUS Supported • $12,000
The TDU 2442 and 2444 emulate the TS11.

Applied Digital Systems

■ ADS 1500
$4,950

Aviv Corporation

■ TFS 1953
4 Supported Drive(s) • 9T • STK Interface(s) Supported • UNIBUS/Q-bus/BIbus Supported
Includes Aviv's GCR controller and an STK 1935/1953 formatter/drive in a 60" cabinet and features tape autoload.

■ TFS 2436
4 Supported Drive(s) • 9T • STK Interface(s) Supported • UNIBUS/Q-bus/BIbus Supported
Includes Aviv's GCR controller and FUJITSU's 2436 formatter/drive in a dual bay cabinet and features tape autoload.

■ TFS 2921
4 Supported Drive(s) • 9T • STK/Pertec Interface(s) Supported • UNIBUS/Q-bus Supported
Includes Aviv's GCR controller and an STK 2921 tape drive in a 60" cabinet and features tape autoload.

■ TFS 2925
4 Supported Drive(s) • STK/Pertec Interface(s) Supported • UNIBUS/Q-bus Supported
Includes Aviv's GCR controller and an STK 2925 tape drive in a 60" cabinet and features tape autoload.

■ TFS 3480
4 Supported Drive(s) • 18T • .5" Drive • STK/SCSI Interface(s) Supported • UNIBUS/Q-bus/BIbus Supported
The TFS 3480 is 100% compatible and media interchangeable with IBM 3480 cartridge tape systems. Compatible with VMS and ULTRIX.

■ **TFS 8200-SB**
9T • 8mm Drive • SCSI Interface(s) Supported • $3,800

■ **TFS 845D-8200**
4 Supported Drive(s) • 8mm Drive • UNIBUS Supported • $4,950
Differential drives are available to allow the system to use an 82 foot cable as well as a shielded cable.

■ **TFS 9270**
4 Supported Drive(s) • 9T • STK/Pertec Interface(s) Supported • UNIBUS/Q-bus Supported
Includes Aviv's GCR controller and TELEX's 9270 formatter/drive in a 60" cabinet and features tape autoload.

■ **TFS 935D-8200**
4 Supported Drive(s) • 8mm Drive • SCSI Interface(s) Supported • Q-bus Supported • $4,500
Differential drives are available to allow the system to use an 82 foot cable as well as a shielded cable.

■ **TFS 990**
4 Supported Drive(s) • Pertec Interface(s) Supported • UNIBUS/Q-bus Supported
Includes Aviv's GCR controller and CIPHER's 990 formatter/drive and features tape autoload.

CMS Enhancements, Inc.

■ **CXB22/Q**
8mm Drive • SCSI Interface(s) Supported • Q-bus Supported • $5,528

■ **CXB22/U**
Cartridge Tape • 8mm Drive • SCSI Interface(s) Supported • UNIBUS Supported • $5,856
The CXB22/Q and the CXB22/U (Exabyte Subsystems) utilize the helical scan recording technique and the standard SCSI error correction codes and error recovery algorithms.

Codar Technology, Inc.

■ **809MT**
8 Supported Drive(s) • 9T • .5" Drive • UNIBUS/Q-bus Supported
Ruggedized top-loading, rackmountable tape drive with full MIL-STD-810D and 461B shock and vibration characteristics. Also meets TEMPEST requirements.

Contemporary Cybernetics Group, Inc.

CONTEMPORARY CYBERNETICS Group

■ **CY 8200-PIF**
Cartridge Tape • 8mm Drive • Pertec Interface(s) Supported • UNIBUS/Q-bus Supported
High speed, high capacity archival subsystem that interfaces as a 9 track drive with any Pertec compatible drive or controller.

■ **CY 8200-Q11**
Cartridge Tape • 8mm Drive • SCSI Interface(s) Supported • Q-bus Supported
High speed, high capacity archival subsystem that interfaces as a 9 track drive with TS11 emulation.

■ **CY 8200-Q81**
Cartridge Tape • 8mm Drive • SCSI Interface(s) Supported • Q-bus Supported
High speed, high capacity archival subsystem that interfaces as a 9 track drive with TU81 emulation.

■ **CY 8200-U11**
Cartridge Tape • 8mm Drive • SCSI Interface(s) Supported • UNIBUS Supported
High speed, high capacity archival subsystem that interfaces as a 9 track drive with TS11 emulation.

■ **CY 8200-U81**
4 Supported Drive(s) • Cartridge Tape • 8mm Drive • SCSI Interface(s) Supported • UNIBUS Supported
High speed, high capacity archival subsystem that interfaces as a 9 track drive with TU81 emulation.

Digi-Data

■ **2000U-TM 2010**
9T • $4,395
Compatible with DEC's TM-11 model. A tabletop model is available for $4,695.

■ **2000U-TM 2020**
9T • $4,795
A tabletop model is available for $5,095.

■ **2000U-TM 2020**
9T • $4,795
A tabletop model is available for $5,095.

■ **2000U-TM 2112**
9T • $4,995
A tabletop model is available for $5,295.



5.4 Gigabytes Unattended Backup

Digi-Data's GIGASTORE™ provides up to 5.4 Gigabytes of data storage on a single T-120 VHS video cartridge. That permits backup of your largest disk drive on off-hours without an operator.

Utilizing true read-after-write coupled with very powerful error correction, GIGASTORE gives you an unsurpassed error rate of 1 in 10^{23} bits. In addition, you get a high speed search capability not available in most 9-track drives.

GIGASTORE can be provided with an interface for IBM PC/XT/AT/PS-2™. It is available with DEC interface for VAX and MicroVAX. It is also available for backup of data on Novell LANs.

Call Digi-Data, an organization with a 25 year history of manufacturing quality tape drives, at (301) 498-0200.

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(301) 498-0200
Telex 87-580

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In Europe contact: Digi-Data Ltd. • Unit 4 • Kings Grove • Maidenhead, Berkshire England SL6 4DP • Telephone No. 0628 29555/6 • Telex 847720

■ **2000U-TM 2112**
9T • $4,995
A tabletop model is available for $5,295.

■ **2000U-TM 2122**
9T • $5,395
A tabletop model is available for $5,695.

■ **2000U-TM 2122**
9T • $5,395
A tabletop model is available for $5,695.

■ **2000U-TS 2010**
9T • $4,195

■ **2000U-TS 2010**
9T • $4,595
A tabletop model is available for $4,895.

■ **2000U-TS 2020**
9T • $4,595
A tabletop model is available for $4,895.

■ **2000U-TS 2020**
9T • $4,795
A tabletop model is available for $5,095.

■ **2000U-TS 2112**
9T • $4,795
A tabletop model is available for $5,095.

■ **2000U-TS 2122**
9T • $5,195
A tabletop model is available for $5,495.

■ **2000U-TS 2122**
9T • $5,195
This 2000U-TS Series is microprocessor based and includes an automatic self-test feature that causes on-board diagnostics to be run each time the unit is powered up. Additionally, this system is compatible with DEC's TS-11 model. A tabletop model is available for $4,495.

■ **GIGASTORE**
9T • .5" Drive • Pertec Interface(s) Supported • $4,780
GIGASTORE is a mass storage device that features high density helical scanning technology with sophisticated error correction techniques. It stores up to 2.5GB, which is equivalent to more than 50 1600bpi tapes. This device is also available in a tabletop version at no additional cost.

■ **GIGASTORE/UVMS**
9T • .5" Drive • Pertec Interface(s) Supported • $6,675
The GIGASTORE/U-VMS system includes GIGASTORE, a UNIBUS compatible interface and a modified VMS compatible software driver on a 1600bpi tape or on a TK50 cartridge.

DILOG

■ **3480**
Cartridge Tape • .5" Drive • UNIBUS/Q-bus Supported • $15,000
Uses multi-track serpentine recording (MSR) techniques allowing cartridges to be moved from system to system, yet allowing them to be read from other drives. Optional expansion to 3.2GB available.

■ **MVO-K**
1 Supported Drive(s) • Cartridge Tape • 8mm Drive • SCSI Interface(s) Supported • UNIBUS/Q-bus Supported

■ **SSSO-K**
1 Supported Drive(s) • Cartridge Tape • 8mm Drive • SCSI Interface(s) Supported • UNIBUS/Q-bus Supported • $4,950

■ **T3834**
1 Supported Drive(s) • Cartridge Tape • .5" Drive • Pertec Interface(s) Supported • UNIBUS/Q-bus Supported • $11,610

■ **T9610**
1 Supported Drive(s) • 9T • 10.5" Drive • Pertec Interface(s) Supported • UNIBUS/Q-bus Supported • $10,775

■ **T990**
1 Supported Drive(s) • 9T • 14" Drive • Pertec Interface(s) Supported • UNIBUS/Q-bus Supported • $9,945

EMULEX CORPORATION

■ **EH23**
Cartridge Tape • 8mm Drive • SCSI Interface(s) Supported • Q-bus Supported
The EH23 features helical scan recording technology and is equipped with a host adapter and cables. It provides unattended backup for MicroVAX II and MicroVAX 3xxx systems.

■ **S13C04/J**
2 Supported Drive(s) • $8,920+

■ **S13C04/Q**
1 Supported Drive(s) • $8,800

■ **S13C07/J**
2 Supported Drive(s) • $13,655+

■ **S13C07/Q**
2 Supported Drive(s) • $13,545
The S13Cxx Series features magnetic tape subsystems that include Emulex tape controllers or couplers, cable sets, pretested tape drives, and subsystem diagnostics on appropriate media if required.

EXABYTE CORPORATION

■ **EXB-8200**
1 Supported Drive(s) • Cartridge Tape • 8mm Drive • SCSI Interface(s) Supported • UNIBUS/Q-bus Supported • $3,850
Standard features include advanced helical scan recording technology, integrated SCSI controller and formatter, industry standard 5.25" form factor, and an onboard error correction capability.

GIGATREND, INC.

■ **GIGA-1230**
8 Supported Drive(s) • Cassette Tape • 4mm Drive • SCSI/Pertec Interface(s) Supported • UNIBUS/Q-bus Supported
The Series 1230 uses Digital audio tape with an embedded SCSI interface. Capacity of 1.2GB is achieved with fast, average random-search speed of 20 seconds.

GROUP THREE ELECTRONICS

■ **4489**
9T • .5" Drive • Pertec Interface(s) Supported • Q-bus Supported

■ **4490**
R-R • .5" Drive • Pertec Interface(s) Supported • Q-bus Supported
The 4489 and 4490 models feature horizontal mount designs, IBM/ANSI compatibility, autoload operation with front panels, and cache streaming modes with tunable transfer rates to optimize system bus utilization.

HONEYWELL

■ **VLDS**

INNOVATIVE DATA TECHNOLOGY

■ **MTS1012-1/130**
1 Supported Drive(s) • 9T • 7/10.5" Drive • Pertec Interface(s) Supported • UNIBUS Supported • $5,995

■ **MTS1012-2/130**
1 Supported Drive(s) • 9T • 7/10.5" Drive • Pertec Interface(s) Supported • UNIBUS Supported • $5,995

■ **MTS1012-3/130**
1 Supported Drive(s) • 9T • 7/10.5" Drive • Pertec Interface(s) Supported • UNIBUS Supported • $5,995

■ **MTS1053/130**
4 Supported Drive(s) • 7/9T • .5" Drive • Pertec Interface(s) Supported • UNIBUS Supported • $7,500

■ **MTS1054/130**
4 Supported Drive(s) • 7/9T • .5" Drive • Pertec Interface(s) Supported • UNIBUS Supported • $7,450

■ **MTS1753/130**
4 Supported Drive(s) • 7/9T • .5" Drive • Pertec Interface(s) Supported • UNIBUS Supported • $8,800

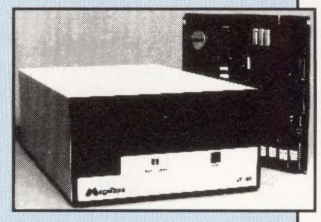
■ **MTS1754/130**
4 Supported Drive(s) • 7/9T • .5" Drive • Pertec Interface(s) Supported • UNIBUS Supported • $8,750
The MTS Series emulates DEC's TM11/TU10 or TS11/TU80 models under VMS, RT-11, RSX, and RSTS operating systems. Cables, software, and documentation are included. The tape subsystem to be emulated must be specified with the order.

IPS TECHNOLOGY

■ **8715**
UNIBUS/BIbus Supported • $14,000+

MEGATAPE CORPORATION

MegaTape



■ **GT-88/6**
7 Supported Drive(s) • Cartridge Tape • 8mm Drive • BIbus Supported
Backup subsystem providing 2GB in 8mm cartridges for direct connection to the VAX BIbus. It is compatible with TMSCP and VMS or ULTRIX and no changes to the operating system are required.

■ **GT-88/3**
4 Supported Drive(s) • Cartridge Tape • 8mm Drive • Q-bus Supported
The GT-88/3 provides 2GB of back up storage in 8mm cartridges for connection to the Q-bus in MicroVAX II systems. It is compatible with TMSCP, and VMS or ULTRIX and no changes to the operating system are required.

■ **GT-88/4**
4 Supported Drive(s) • Cartridge Tape • 8mm Drive • UNIBUS Supported
The GT-88/4 provides 2GB of back up storage in 8mm cartridges for connection to the UNIBUS on VAX and PDP-11 systems. It is compatible with TMSCP and VMS, ULTRIX, UNIX, RSX-11M, RSX-11M+, RSTS, and DMS/MUMPS with no change requirements to the operating system.

■ **GT-88/5**
4 Supported Drive(s) • Cartridge Tape • 8mm Drive • Q-bus Supported
The GT-88/5 provides 2GB of back up storage in 8mm cartridges for connecting to Q-bus or MicroVAX 3xxx systems. It is compatible with TMSCP and VMS or ULTRIX and requires no changes to the operating system.

■ **MT-750**
1 Supported Drive(s) • Cartridge Tape • .5" Drive • BIbus Supported
The MT-750 provides 630KB of backup storage in .5" cartridges for direct connection to the VAX BIbus. It is compatible with TMSCP and VMS or ULTRIX and requires no changes to the operating system.

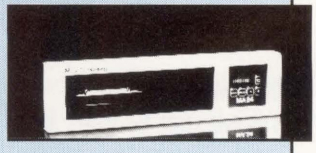
MICRO TECHNOLOGY, INC.

■ **MA-100**
4 Supported Drive(s) • 9T • SCSI Interface(s) Supported • $35,000
The MA-100 is an HSC50, HSC70, HSC40, 9 track compatible tape subsystem. Designed to replace the TA79 for half the sale price.

■ **MA-200**
4 Supported Drive(s) • 9T • UNIBUS/Q-bus Supported • $58,000
The MA-200's DSA architecture incorporates a migration path designed to incorporate other high performance backup devices such as the IBM 3480 and 8mm tape cartridge systems.

MICRO TECHNOLOGY, INC.

MT



■ **MA-24**
16 Supported Drive(s) • Cartridge Tape • 5.25" Drive • UNIBUS/Q-bus Supported • $28,500
The MA-24 8mm cartridge tape makes unattended HSC cluster back up a reality. The Micro Technology MA-24 is a 2GB cartridge tape subsystem that is compatible with the DEC HSC40, HSC50, and HSC70 servers. Attaching to the HSC5X-CA/DA card, the MA-24 supports a master with three slaves. A fully configured HSC5X-CA/DA card is able to back up 32GB of data, unattended. With its own 512KB cache buffer, the MA-24 is able to stream at 246Kbps. That means backing up 2GB takes less than three hours. The MA-24 is 100% HSC compatible with pure TA emulation and is the solution for unattended cluster back up.

■ **MTQ-223**
2 Supported Drive(s) • 8mm • 5.25" Drive • Q-bus Supported • $14,000

■ **MTQ-23**
1 Supported Drive(s) • Cartridge Tape • 5.25" Drive • Q-bus Supported • $7,500
The MTQ 223 and 23 models are 8mm cartridge tape systems that are compatible with all DEC Q-bus CPUs. Available in table top, rackmount, or kit configurations. Upgradeable to the MA-24 HSC compatible via MTI-MA90.

■ **MTU-223**
2 Supported Drive(s) • 8mm • 5.25" Drive • UNIBUS Supported • $14,500

■ **MTU-23**
1 Supported Drive(s) • 8mm • 5.25" Drive • UNIBUS Supported • $8,500
The MTU 223 and 23 models are 8mm cartridge tape systems that are compatible with all DEC UNIBUS CPUs. Available in tabletop, rackmount, or kit configurations. Upgradeable to the MA-24. HSC compatible via MTI-MA90.

Scientific Micro Systems, Inc.

■ **SMS 1000-10**
1 Supported Drive(s) • Cartridge Tape • .25" Drive • Q-bus Supported
Equipped with a streaming tape controller and interface board that plugs into the host backplane.

SLR Associates

SRS-8
7 Supported Drive(s) • Cassette Tape • 8mm Drive • UNIBUS/Q-bus/Bibus Supported
The SRS-8 features a console monitor that supports remaining tape and error rate information.

Summus Computer Systems

■ **448Tape**
18T • UNIBUS/Q-bus Supported
Interchanges data beween the IBM 3480 and DEC MicroVAX II/III and VAX systems.

■ **DataTape**
UNIBUS Supported • $4,900+

■ **GigaTape-1.2**
Cassette Tape • 4mm Drive • $6,995

■ **GigaTape-1000**
8 Supported Drive(s) • Cassette Tape • 4mm Drive • UNIBUS Supported

■ **GigaTape-442**
8 Supported Drive(s) • Cassette Tape • 4mm Drive • UNIBUS Supported • $4,200+

■ **GigaTape-452**
8 Supported Drive(s) • Cassette Tape • 4mm Drive • UNIBUS Supported

■ **GigaTape-JBL 125**
8 Supported Drive(s) • Cassette Tape • 4mm Drive • UNIBUS Supported

■ **MassTape**
8 Supported Drive(s) • 9T • .5" Drive • UNIBUS Supported • $1,900+
The DataTape, MassTape, and GigaTape Series all emulate the DEC TS11.

TECEX

■ **TX-2200**
$17,950

■ **TX-8200M**
$6,995

Total Tec Systems, Inc.

■ **TT75013**
Cartridge Tape • .5" Drive
The TT75013 emulates the DEC TS11.

■ **TT96013**
R-R
The TT96013 emulates the DEC TS11 and TSV05 models.

Transitional Technology, Inc.

■ **CTS-8**
4+ Supported Drive(s) • Cassette Tape • 8mm Drive • UNIBUS/Q-bus Supported • $5,395+
The CTS-8 features helical scan technology. Its large capacity allows unattended back up of large systems.

■ **CTS-8000**
4+ Supported Drive(s) • Cassette Tape • 8mm Drive • UNIBUS/Q-bus Supported • $6,595+
The CTS-8000 offers the same features as the CTS-8 as well as a light panel to provide feedback regarding drive performance, multihost capabilities, and long line options.

Trimarchi, Inc.

■ **QTA-EXB8200**
1 Supported Drive(s) • Cartridge Tape • SCSI Interface(s) Supported • UNIBUS/Q-bus Supported • $4,395

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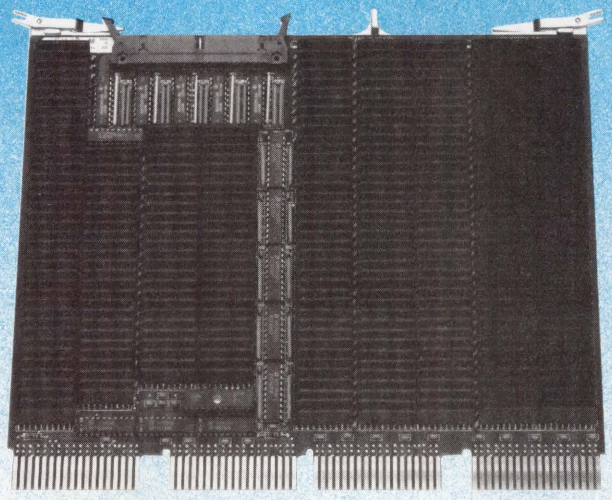
MEMORY

MEMORY BOARDS

Model	Max Board Capacity (Bytes)	Max System Capacity (Bytes)	Type of Memory	Read Cycle Time (ns)	RMW Cycle Time (ns)	Host Interface	Read Access Time (ns)	RMW Access Time (ns)	Data Organization	ECC/EDC	Board Size	Warranty	Price
Camintonn Corporation 714 553-0247													
CMV-1000	1M	4M	MOS			Q-bus					Q	5 yrs	
CMV-2000	1M	4M	MOS			Q-bus					Q	5 yrs	
CMV-250	256K	4M	DRAM	440		Q-bus	50	150	64KB MOS	N/N	Q	5 yrs	
CMV-254	1M	4M	DRAM	440		Q-bus	50	150	256KB MOS	N/N	Q	5 yrs	
CMV-4000	4M	4M	DRAM	440		Q-bus	50	150	256KB MOS	N/N	Q	5 yrs	
CMV-4000	4M	4M	MOS			Q-bus					Q	5 yrs	
CMV-500	512K	4M	DRAM	440	490	Q-bus	50	150	64KB MOS	N/N	Q	5 yrs	
CMV-504	2M	4M	DRAM	440		Q-bus	50	150	256KB MOS	N/N	Q	5 yrs	
CMX-1631	16M	16M	DRAM			Q-bus	150	150	1MB MOS	N/N	Q	5 yrs	
CMX-1651	16M	64M	DRAM			Q-bus	150	150	1MB MOS	Y/Y	Q	5 yrs	
CMX-1651	16M	64M	DRAM			Q-bus				Y/-	Q	5 yrs	
CMX-2451	24M	64M	DRAM			Q-bus	150	150	1MB MOS	Y/Y	Q	5 yrs	
CMX-3251	32M	64M	DRAM			Q-bus	150	150	1MB MOS	Y/Y	Q	5 yrs	
CMX-750/730	1M	4M	RAM	50		UNIBUS	225			Y/-	H	5 yrs	
CMX-780/785	4M	64M				UNIBUS				Y/-	H	5 yrs	
CMX-780/785-1	1-4M	64M	MOS RAM			UNIBUS	<200			Y/-	XH	5 yrs	
CMX-830-E	8M		DRAM			Q-bus	150	150	256KB MOS	Y/Y	Q	5 yrs	
CMX-831	8M	16M	RAM			Q-bus	150	150	1MB MOS	N/N	Q	5 yrs	
CMX-851	8M	64M	DRAM			Q-bus	150	150	1MB MOS	Y/Y	Q	5 yrs	
CMX-851	8M	64M	DRAM			Q-bus				Y/-	Q	5 yrs	
Chrislin Industries, Inc. 818 991-2254													
CI-1123	256K	4M	DRAM	400		Q-bus			64KB NMOS		D	L	
CI-1123+	1M	4M	DRAM	400		Q-bus			256KB CMOS		D	L	
CI-1173	128K	4M	DRAM	350		Q-bus	190		256KB CMOS	Y/Y	Q	L	
CI-1173-EDC	128K	4M	RAM	395		Q-bus	190		256KB CMOS	Y/Y	Q	L	
CI-MIV16	16M	16M	DRAM	400		Q-bus			1MB CMOS		Q	L	
CI-MIV3-EDC	32M	64M	DRAM			Q-bus			1MB CMOS	Y/Y	Q	L	
CI-MIV4	4M	4M	DRAM	400		Q-bus			256KB CMOS		Q	L	
CI-MIV8	8M	8M	DRAM	400		Q-bus			256KB CMOS		Q	L	
CI-MIV8-EDC	8M	16M	DRAM	400		Q-bus			1MB CMOS	Y/Y	Q	L	
CI-PMI-EDC	4M	4M	RAM	395		Q-bus	160		1MB CMOS	Y/Y	Q	L	
CI-QBUS-EDC	4M	4M	RAM	395		Q-bus	160		1MB CMOS	Y/Y	D	L	
CI-V53	1M		RAM			UNIBUS			64KB MOS	Y/-	H	L	
CI-VAX4	1M		RAM			UNIBUS			256KB MOS	Y/-	XH	L	
CI-VAX4	4M		RAM			UNIBUS			256KB MOS	Y/-	XH	L	
Clearpoint Research Corporation 800 253-2778													
DCME-M2/16MB	16M	16M	DIP			Q-bus			1MBx1		Q	L	
DCME-M2/4MB	4M	16M	DIP			Q-bus			1MBx1		Q	L	
DCME-M2/8	8M	8M	ZIP			Q-bus			256KBx1		Q	L	
DCME-M2/8MB	4M	8M	ZIP			Q-bus			256KBx1		Q	L	
DCME-M20/16MB	16M	16M	SOJ			Q-bus			1MBx1			L	
DCME-M20/8MB	8M	16M	SOJ			Q-bus			1MBx1			L	
DCME-M30/16	16M	32M	DIP DRAM	400		Q-bus	150		1MBx1	-/Y	Q	L	
DCME-M30/16MB	16M	64M	DIP DRAM			MV 3000			1MBx1	-/Y	Q	L	$11,500

32MB MICROVAX III MEMORY

"Available Now"

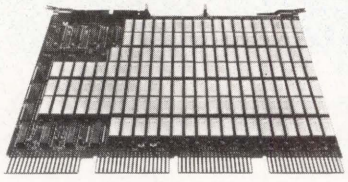


"Available Now"

THE CI-MIV32 FEATURES

- Allows 64MB, the maximum memory capacity of the Microvax III, using only 2 expansion slots in all system configurations, including the BA23 box.
- 8MB, 16MB or 32MB on one board.
- Hardware and software compatible with any Microvax III series.
- On board 32 bit ECC for single bit error correction, double bit error detection.

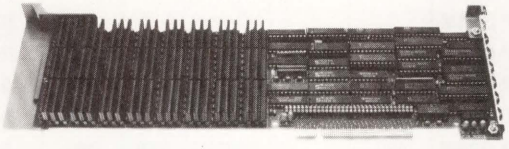
MICROVAX II



THE CI-MIV16 FEATURES

- 16 megabytes on one board.
- On board parity.
- Hardware and software compatible with the Microvax II.
- Backplane space savings.
- Power requirement savings.

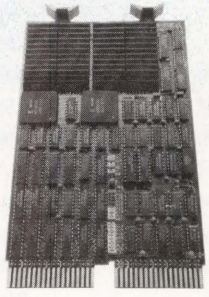
IBM PS/2



THE CI-SYS2-56 FEATURES

- Available in 2MB, 4MB, and 6MB upgradeable options, and full 8MB.
- Up to 8 megabytes of parity memory in one Micro Channel slot.
- Addressable in combinations of standard and EMS memory.
- EMS support for DOS applications includes device drivers and utilities.
- Full Micro Channel compatibility.
- Compatible with the Programmable Option Select (POS) of Micro Channel.
- 3 serial I/O, 1 parallel, and 1 game port.

QBUS
PDP 11/23, 11/73



THE CI-QBUS-EDC FEATURES

- 2 or 4 megabytes on one board.
- Dual width.
- Single bit error correction, double bit error detection.
- Runs DEC diagnostics.
- Block Mode DMA.

*"Also available are memories for VME bus, Multibus, PMI and a **Game Port** for IBM's Personal System/2." Call for details . . .*

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A Wonderful World of Memories!

MEMORY BOARDS

Model	Max Board Capacity (Bytes)	Max System Capacity (Bytes)	Type of Memory	Read Cycle Time (ns)	RMW Cycle Time (ns)	Host Interface	Read Access Time (ns)	RMW Access Time (ns)	Data Organization	ECC/EDC	Board Size	Warranty	Price
Clearpoint Research Corporation 800 253-2778 (continued)													
DCME-M30/32MB	32M	64M	SOJ			MV 3000			1MBx1	-/Y	Q	L	
DCME-M30/8	16M	16M	ZIP DRAM			Q-bus			256KBx1	-/Y	Q	L	
DCME-M30/8MB	8M	64M	DIP DRAM			VS 3100			1MBx1	-/Y	Q	L	
DCME-M31/12MB	12M	32M	1MB DRAM			VS 3100			SOJ	N/N		L	$7,200
DCME-M31/16MB	16M	32M	1MB DRAM			VS 3100			SOJ	N/N		L	$9,600
DCME-M31/8MB	8M	32M	1MB DRAM			VS 3100			SOJ	N/N		L	$5,400
DCME-Q2A	256K	512K	DIP DRAM	450		Q-bus	225		64KBx1	Y/Y	Q	L	
DCME-Q2B	1M	2M	DIP DRAM	300		Q-bus	85		256KBx1	Y/Y	D	L	
DCME-Q4B	1M	4M	DIP DRAM	200		Q-bus	200		256KBx1	Y/Y	Q	L	
DCME-Q4E	2M	4M	DIP DRAM	580		UNIBUS	60	130	256KBx1	Y/Y	Q	L	
DCME-V75	1M	1M	DIP DRAM			UNIBUS	220	500	64KBx1	-/Y	XH	L	$690
DCME-V78	2M	64M	DIP DRAM			UNIBUS	225	500	64KBx1	-/Y	XH	L	$1,745
DCME-V78	4M	64M	DIP DRAM			UNIBUS	225	500	256KBx1	-/Y	XH	L	$1,745
DCME-V78	8M	64M	DIP DRAM			UNIBUS	225	500	256KBx1	-/Y	XH	L	$1,745
MV2000	8M	16M	SOJ DRAM			Q-bus			1MBx1			L	
MV2000	16M	16M	SOJ DRAM			Q-bus			1MBx1			L	
MV2D/8	8M	16M	DIP DRAM	400		Q-bus	150		1MBx1		D	L	
MV2RAM/16	16M	16M	DIP DRAM	400		Q-bus	150		1MBx1		Q	L	
MV2RAM/4	2M	8M	DIP DRAM	400		Q-bus	150		256KBx1		Q	L	
MV2RAM/4	4M	8M	DIP DRAM	400		Q-bus	150		256KBx1		Q	L	
MV2RAM/4	8M	8M	DIP DRAM	400		Q-bus	150		256KBx1		Q	L	
MV2RAM/8	2M	8M	ZIP DRAM	400		Q-bus	150		256KBx1		Q	L	
MV2RAM/8	4M	8M	ZIP DRAM	400		Q-bus	150		256KBx1		Q	L	
MV2RAM/8	8M	8M	ZIP DRAM	400		Q-bus	150		256KBx1		Q	L	
MV3000	8M	32M	ZIP DRAM			Q-bus			256KBx1	-/Y	Q	L	$4,950
MV3000	16M	32M	ZIP DRAM			Q-bus			256KBx1	-/Y	Q	L	$9,200
MV3000	32M	32M	ZIP DRAM			Q-bus			256KBx1	-/Y	Q	L	$21,000
UNIRAM	256K	1M	DIP DRAM	450		UNIBUS	250	100	64KBx1		H	L	
UNIRAM	512K	1M	DIP DRAM	450		UNIBUS	250	100	64KBx1		H	L	
UNIRAM	1M	1M	DIP DRAM	450		UNIBUS	250	100	64KBx1		H	L	
VXR781	1M	64M	DIP DRAM			UNIBUS	225	500	64KBx4	-/Y	XH	L	
VXR8600/16	16M	128M	DIP DRAM			Bibus	400	640	1MBx1	Y/Y		L	
VXR8600/16	16M	128M	DIP DRAM			Bibus	300	480	1MBx1	Y/Y		L	
VXR8600/4	4M	128M	DIP DRAM			Bibus	400	640	256KBx1	Y/Y		L	
VXR8600/4	4M	128M	DIP DRAM			Bibus	300	480	256KBx1	Y/Y		L	
VXR8800/16	16M	512M	SMD DRAM			Bibus			256KBx1	-/Y		L	
VXR8800/32	32M	512M	SMD DRAM			Bibus			1MBx1	-/Y		L	
VXR8800/64	64M	512M	SMD DRAM			Bibus			1MBx1	-/Y		L	
Dataram Corporation 609 799-0071													
DR-1420	4-8M	12M	DIP DRAM						1MB			L	
DR-2000	1-12M	14M	ZIP DRAM			Q-bus			1MB CMOS			L	$2,995+
DR-216	1-2M		DIP DRAM	300	300	U/Q	80		256KB		D	L	$495+
DR-222	4M	16M	DIP DRAM			Q-bus			256KB NMOS		Q	L	$1,175
DR-224	8M	16M	DRAM	320		Q-bus	180		256KB NMOS		Q	L	$1,995
DR-244	1M		DIP DRAM			UNIBUS			64KB NMOS	Y/-	H	L	$1,150
DR-275/3	1M	3M	DRAM	500	850	UNIBUS	270	270	64KB NMOS	Y/Y	H	L	$695
DR-275/5	1M	5M	DRAM	500	850	UNIBUS	270	270	64KB NMOS	Y/-	H	L	$850
DR-275/8	1M	8M	DRAM	500	850	UNIBUS	270	270		Y/-	H	L	$850

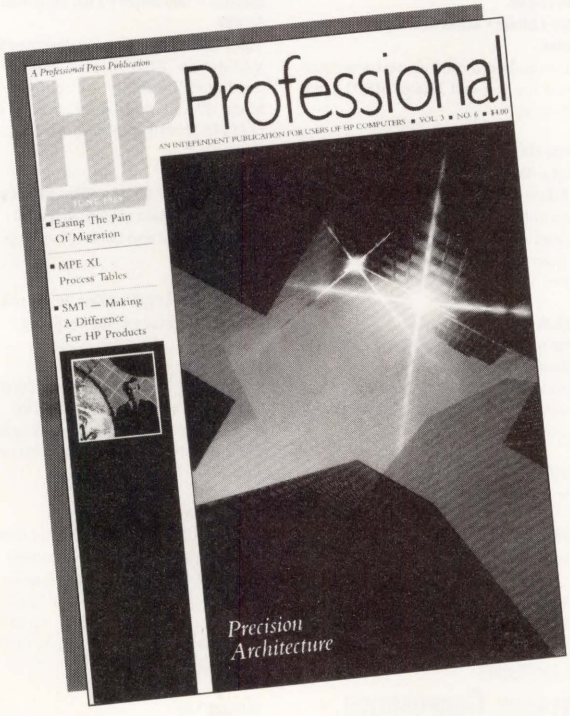
MEMORY BOARDS

Model	Max Board Capacity (Bytes)	Max System Capacity (Bytes)	Type of Memory	Read Cycle Time (ns)	RMW Cycle Time (ns)	Host Interface	Read Access Time (ns)	RMW Access Time (ns)	Data Organization	ECC/EDC	Board Size	Warranty	Price
Dataram Corporation 609 799-0071 (continued)													
DR-278/1	1M	16M	DRAM	500	500	UNIBUS	200	100	64KB NMOS	Y/-	XH	L	$675
DR-278/4	4M	64M	DRAM	500	500	UNIBUS	200	100	64KB NMOS	Y/-	XH	L	$1,395
DR-278/4	4M	64M	DRAM	500	500	UNIBUS	200	100	256KB NMOS	Y/-	XH	L	$1,395
DR-283	2-4M		ZIP DRAM	500	500	U/Q	250	125	256KB NMOS	Y/-	Q	L	$1,275+
DR-286/16	16M	128M	DRAM	560	640	Bibus	360		1MB CMOS	Y/-	XH	L	$6,500
DR-286/4	4M	128M	DRAM	560	640	Bibus	360		256KB MOS	Y/-	XH	L	$2,295
DR-300/16	16M	64M	DIP DRAM			Q-bus	230		1MB	Y/Y		L	$5,595
DR-300/32	32M	64M	ZIP DRAM			Q-bus	230		1MB	Y/Y		L	$13,995
DR-300/8	8M	64M	DIP DRAM			Q-bus	230		1MB	Y/Y		L	$2,895
DR-3100DS	2M	24M	CMOS DRAM			DS 3100			1MB			L	$1,200
DR-3100VS	8M	32M	CMOS DRAM			VS 3100			1MB			L	$4,800
DR-3100VS	16M	32M	CMOS DRAM			VS 3100			1MB			L	$9,600
DR-3100VS	24M	32M	CMOS DRAM			VS 3100			1MB			L	$14,400
DR-3100VS	12M	32M	CMOS DRAM			VS 3100			1MB			L	$7,200
Digital Data Systems, Inc. 305 792-3290													
DDS 750	1M		DRAM	500	850	UNIBUS	270	270		Y/-	H	L	$575
DDS 780-1	1M	64M	DRAM	500	500	UNIBUS	200	100		Y/-	H	L	$600
DDS 780-4	4M	64M	DRAM	500	500	UNIBUS	200	100		Y/-	H	L	$1,275
DDS MV2-2	2M			300		Q-bus	165					L	
DDS MV2-4	4M			300		Q-bus	165					L	
DDS MV2-8	8M	16M		300		Q-bus	150					L	
Digital Instruments Corporation 800 222-IMAX													
QM256	4M	32M	DRAM	250	500	Q-bus				N/N	Q	1 yr	$2,650
EMC Corporation 508 435-1000													
EMCVT-780-16	16M					UNIBUS						L	$17,900+
MVX 3000	8M					Q-bus						L	
MVX 3000	16M					Q-bus						L	
MVXII-8Mb	8M		RAM			Q-bus				Y/-		L	$16,000
Stretch-15	15M					UNIBUS					H	L	$7,900
VX1Mb-750	1M		DRAM			UNIBUS				Y/-		L	$1,800
VX1Mb-780	1M	64M	RAM			UNIBUS						L	$1,800
VX4Mb-750	4M	15M	DRAM			UNIBUS				Y/-		L	
VX4Mb-780	4M	64M	RAM			UNIBUS				Y/-		L	$5,100
VX86-16Mb	16M	128M	RAM			Bibus						L	$58,000
VXMI-16Mb	16M	128M	RAM			Bibus						L	
VXMI-64	64M	128M				Bibus						L	$23,900
International Data Technology 305 587-6823													
IDT-386	1M					UNIBUS							$750
IDT-389	4M					UNIBUS							$2,200
IDT-397	4M					UNIBUS							$6,000
MCS Computer Products, Inc. 612 770-5232													
NX750-SPU		15M				UNIBUS						L	$3,845+
Monolithic Systems Corporation 303 790-7400													
MSC 3205	24M	192M		280		UNIBUS	240			Y/-	H	1 yr	
MSC 3210	24M	384M		280		UNIBUS	240			Y/-	H	1 yr	
MSC 4931	16M	16M	RAM	280		Q-bus	240		1MB	Y/-	Q	5 yrs	
MSC 4937	8M	16M	RAM			Q-bus			1MB	Y/-	Q	5 yrs	

MEMORY BOARDS

Model	Max Board Capacity (Bytes)	Max System Capacity (Bytes)	Type of Memory	Read Cycle Time (ns)	RMW Cycle Time (ns)	Host Interface	Read Access Time (ns)	RMW Access Time (ns)	Data Organization	ECC/EDC	Board Size	Warranty	Price
National Semiconductor Corporation 800 538-8510													
NS753	1M		RAM	500	650	UNIBUS	225		64KB	Y/-	XH	5 yrs	
NS789	1M		RAM	350		UNIBUS	180		64KB	Y/-	XH	5 yrs	
NS789	4M		RAM	350		UNIBUS	180		256KB		XH	5 yrs	
NS865	16M	128M		420		BIbus	300		1MB		XH	L	
Nemonix, Inc. 800 435-8650													
NX2000-12	12M	14M				Q-bus			1MB	N/N		L	
NX2000-16	16M	16M	DRAM			Q-bus			1MB	N/N		L	
NX2000-8	8M	10M	DRAM			Q-bus			1MB	N/N		L	
NX75-1	1M	8M	DRAM	500		UNIBUS	270		1MB	Y/-	H	L	
NX75-1	1M	5M	DRAM	500		UNIBUS	270		256KB	Y/N	H	L	
NX75-1	1M	3M	DRAM	500		UNIBUS	270		256KB	Y/N	H	L	
NX75-4	4M	15M	DRAM	500		UNIBUS	270		1MB	Y/N	H	L	
NX750-MV	4M	15M	DRAM			UNIBUS			1MB	-/Y	XH/H	L	
NX750-SPU	4M	15M	DRAM			UNIBUS			1MB	Y/-		L	
NX78-4	4M	64M	RAM	500		UNIBUS	225		256KB	Y/-	XH	L	
NX78-8	8M	64M	DRAM	500		UNIBUS	225		1MB	Y/-	XH	L	
NX86-16	16M	128M	DRAM	280		BIbus			1MB	Y/-	XH	L	
NXII-16	16M	16M	DRAM	320		Q-bus			1MB	N/N	Q	L	
NXII-8	8M	16M	DRAM	320		Q-bus			1MB	N/N	Q	L	
NXII-E16	16M	16M	DRAM	320		Q-bus			1MB	-/Y	Q	L	
See First Technology, Inc. 408 748-7717													
Simm Module Upgrade	4M	24M											
Standard Memories 800 543-3323													
BUSCOMM 70S	1536K	4M	MOS RAM	700	700	UNIBUS	550	100		Y/-		L	
PINCOMM 23SX	2M			450	570	UNIBUS	200	115		N/N	H	L	
PINCOMM 24S	1M		MOS	450	450	UNIBUS	425	225		Y/-		L	
PINCOMM 3000S	16M		MOS	450	180	Q-bus	150			Y/-	Q	L	
PINCOMM 44S	1M		MOS	550	950	UNIBUS	440	200		Y/Y	H	L	
PINCOMM 616S	8-16M	16M	MOS	400	400	Q-bus	180				Q	L	
PINCOMM 630S	4M		MOS	400	400	Q-bus	180			N/N	Q	L	
PINCOMM 730S	1M		MOS RAM	650		UNIBUS	320			Y/-	H	L	
PINCOMM 73S	4M		MOS	450	470	Q-bus	150	110				L	
PINCOMM 750S+	1M	8M	MOS RAM	650		UNIBUS	320			Y/-	H	L	
PINCOMM 750SD	1M		MOS RAM	650		UNIBUS	320			Y/-	H	L	
PINCOMM 750SX	4M		MOS RAM	650		UNIBUS	320			Y/-	H	L	
PINCOMM 750SX-UPG2	4M	14M	MOS RAM	650		UNIBUS	320			Y/-	H	L	
PINCOMM 750SX-UPG3	4M	15M		650		UNIBUS	320					L	
PINCOMM 780SX	1M	16M	MOS RAM	500		UNIBUS	200			Y/-	H	L	
PINCOMM 860SX	16M		MOS	560	640	BIbus	640			Y/-	H	L	

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Memory Boards

Camintonn Corporation

■ **CMV-1000**
1MByte • MOS • Q-bus Supported

■ **CMV-2000**
1MByte • MOS • Q-bus Supported
The CMV-1000 and -2000 utilize block-mode DMA, feature byte-parity to help ensure data integrity and an on-board Control and Status Register (CSR) that locates errors for easy software correction.

■ **CMV-250**
256KBytes • DRAM • 440ns Read Cycle • 50ns Read Access • Q-bus Supported

■ **CMV-254**
1MByte • DRAM • 440ns Read Cycle • 50ns Read Access • Q-bus Supported

■ **CMV-4000**
4MBytes • DRAM • 440ns Read Cycle • 50ns Read Access • Q-bus Supported
The CMV-250, -254, and -4000 feature block mode DMA, and the on-board CSR is compatible to CSR on DEC memory boards; controls parity check, flags parity error and stores location of error.

■ **CMV-4000**
4MBytes • MOS • Q-bus Supported
Utilizes block-mode DMA, features byte-parity to help ensure data integrity and an on-board Control and Status Register (CSR) that locates errors for easy software correction.

■ **CMV-500**
512KBytes • DRAM • 440ns Read Cycle • 50ns Read Access • Q-bus Supported

■ **CMV-504**
2MBytes • DRAM • 440ns Read Cycle • 50ns Read Access • Q-bus Supported
The CMV-500 and -504 support block mode DMA. The on-board CSR is compatible to CSR on DEC memory boards; controls parity check, flags parity error and stores location of error.

■ **CMX-1631**
16MBytes • DRAM • 150ns Read Access • Q-bus Supported
Fully compatible with MicroVAX II systems, including diagnostics. On-board parity generated/checked and error reported for each byte.

■ **CMX-1651**
16MBytes • DRAM • 150ns Read Access • Q-bus Supported
Fully compatible with MicroVAX 3000 Series systems, including diagnostics. Board supports ECC capable of one-bit error correcting and two-bit error detecting.

■ **CMX-1651**
16MBytes • DRAM • Q-bus Supported
Fully hardware, software, and diagnostically compatible with the DEC KA 650 CPU.

■ **CMX-2451**
24MBytes • DRAM • 150ns Read Access • Q-bus Supported

■ **CMX-3251**
32MBytes • DRAM • 150ns Read Access • Q-bus Supported
The CMX-2451 and -3251 are fully compatible with MicroVAX 3000 Series systems, including diagnostics. Board supports ECC capable of one-bit error correcting and two-bit error detecting.

■ **CMX-750/730**
1MByte • RAM • 50ns Read Cycle • 225ns Read Access • UNIBUS Supported

■ **CMX-780/785**
4MBytes • UNIBUS Supported
This module may be interleaved in systems with two controllers for faster potential memory access; 1MB modules are available for quantity orders.

■ **CMX-780/785-1**
1-4MBytes • MOS RAM • <200ns Read Access • UNIBUS Supported

■ **CMX-830-E**
8MBytes • DRAM • 150ns Read Access • Q-bus Supported
Fully compatible with MicroVAX II systems. Features on-board ECC capable of one-bit error correcting and two-bit error detecting; two-bit errors reported as parity error.

■ **CMX-831**
8MBytes • RAM • 150ns Read Access • Q-bus Supported
Fully compatible with MicroVAX II systems, including diagnostics. On-board parity generated/checked and error reported for each byte.

■ **CMX-851**
8MBytes • DRAM • 150ns Read Access • Q-bus Supported
Fully compatible with MicroVAX 3000 Series systems, including diagnostics. Board supports ECC capable of one-bit error correcting and two-bit error detecting.

■ **CMX-851**
8MBytes • DRAM • Q-bus Supported
Fully hardware, software, and diagnostically compatible with the DEC KA 650 CPU.

Chrislin Industries, Inc.

■ **CI-1123**
256KBytes • DRAM • 400ns Read Cycle • Q-bus Supported
Features on-board distributed refresh, battery back-up mode, and an on-board parity generator checker.

■ **CI-1123+**
1MByte • DRAM • 400ns Read Cycle • Q-bus Supported
Features on-board distributed refresh, battery back-up mode, and an on-board parity generator checker with CSR.

■ **CI-1173**
128KBytes • DRAM • 350ns Read Cycle • 190ns Read Access • Q-bus Supported
Features block mode DMA with extended addressing to 36MB.

■ **CI-1173-EDC**
128KBytes • RAM • 395ns Read Cycle • 190ns Read Access • Q-bus Supported
Features block mode DMA with extended addressing to 36MB, support software for DEC operating systems, and an extended control status register to diagnose soft RAM errors.

■ **CI-MIV16**
16MBytes • DRAM • 400ns Read Cycle • Q-bus Supported
Features on-board parity and is fully compatible with the MicroVAX II.

■ **CI-MIV3-EDC**
32MBytes • DRAM • Q-bus Supported
Fully compatible with the DEC MicroVAX 3000 Series. Maximum 32MB in one slot in a BA23 box.

■ **CI-MIV4**
4MBytes • DRAM • 400ns Read Cycle • Q-bus Supported
Features on-board parity and is fully compatible with the MicroVAX II.

■ **CI-MIV8**
8MBytes • DRAM • 400ns Read Cycle • Q-bus Supported
Features on-board parity and is fully compatible with the MicroVAX II.

■ **CI-MIV8-EDC**
8MBytes • DRAM • 400ns Read Cycle • Q-bus Supported
Features on-board control status register for error logging and MicroVMS II error logger support.

■ **CI-PMI-EDC**
4MBytes • RAM • 395ns Read Cycle • 160ns Read Access • Q-bus Supported
Features block mode DMA, runs DEC software and diagnostics, and supports the PMI interface on PDP 11/83 and 11/84 systems.

■ **CI-QBUS-EDC**
4MBytes • RAM • 395ns Read Cycle • 160ns Read Access • Q-bus Supported
Features block mode DMA and runs DEC diagnostics for LSI-11, J-11, and MicroVAX I computers.

■ **CI-V53**
1MByte • RAM • UNIBUS Supported

■ **CI-VAX4**
1MByte • RAM • UNIBUS Supported

■ **CI-VAX4**
4MBytes • RAM • UNIBUS Supported

Clearpoint Research Corporation

■ **DCME-M2/16MB**
16MBytes • DIP • Q-bus Supported

■ **DCME-M2/4MB**
4MBytes • DIP • Q-bus Supported

■ **DCME-M2/8**
8MBytes • ZIP • Q-bus Supported

■ **DCME-M2/8MB**
4MBytes • ZIP • Q-bus Supported
The DCME-M2 Series provides memory for the MicroVAX II with parity.

■ **DCME-M20/16MB**
16MBytes • SOJ • Q-bus Supported

■ **DCME-M20/8MB**
8MBytes • SOJ • Q-bus Supported
The DCME-20 Series provides memory for the MicroVAX 2000 with parity.

■ **DCME-M30/16**
16MBytes • DIP DRAM • 400ns Read Cycle • 150ns Read Access • Q-bus Supported

■ **DCME-M30/16MB**
16MBytes • DIP DRAM • MV 3000 Supported • $11,500

■ **DCME-M30/32MB**
32MBytes • SOJ • MV 3000 Supported

■ **DCME-M30/8**
16MBytes • ZIP DRAM • Q-bus Supported

■ **DCME-M30/8MB**
8MBytes • DIP DRAM • MV 3000 Supported
The DCME-M30 Series provides memory for the MicroVAX 3000 family.

■ **DCME-M31/12MB**
12MBytes • 1MB DRAM • 3100 Supported • $7,200

■ **DCME-M31/16MB**
16MBytes • 1MB DRAM • 3100 Supported • $9,600

■ **DCME-M31/8MB**
8MBytes • 1MB DRAM • 3100 Supported • $5,400
The DCME-M31 Series is designed for the VAXstation 3100 Series; allows users maximum flexibility to configure both Model 30 and Model 40 systems to a total of 16MB, 20MB, 24MB, or 32MB.

■ **DCME-Q2A**
256KBytes • DIP DRAM • 450ns Read Cycle • 225ns Read Access • Q-bus Supported
Features CSR and battery back-up.

■ **DCME-Q2B**
1MByte • DIP DRAM • 300ns Read Cycle • 85ns Read Access • Q-bus Supported

■ **DCME-Q4B**
1MByte • DIP DRAM • 200ns Read Cycle • 200ns Read Access • Q-bus Supported
The DCME-Q2B and Q4B models feature block mode DMA, CSR, and battery back-up.

■ **DCME-Q4E**
2MBytes • DIP DRAM • 580ns Read Cycle • 60ns Read Access • UNIBUS Supported
Features DEC parity and memory diagnostic compatibility, and a bank select option to extend addressing up to 60MB. Provides Q-bus memory that is PDP 11/83 PMI-bus compatible.

■ **DCME-V75**
1MByte • DIP DRAM • 220ns Read Access • UNIBUS Supported • $690

■ **DCME-V78**
2MBytes • DIP DRAM • 225ns Read Access • UNIBUS Supported • $1,745

■ **DCME-V78**
4MBytes • DIP DRAM • 225ns Read Access • UNIBUS Supported • $1,745
The DCME-V75 and V78 models feature identical functionality to the DEC MS750. Battery back-up is included. The maximum system capacity for the 11/750 is 8MB.

■ **DCME-V78**
8MBytes • DIP DRAM • 225ns Read Access • UNIBUS Supported • $1,745
Equipped with 8MB of board capacity which allows system expansion up to 64MB in the standard 780E backplane. A filler card is provided.

■ **MV2000**
8MBytes • SOJ DRAM • Q-bus Supported

■ **MV2000**
16MBytes • SOJ DRAM • Q-bus Supported
The MV2000 Series features on-board parity and supports the MicroVAX and VAXstation 2000.

■ **MV2D/8**
8MBytes • DIP DRAM • 400ns Read Cycle • 150ns Read Access • Q-bus Supported
Features on-board parity, jumperless addressing and is fully MicroVAX II compatible. Dual height card saves an A/B slot for other peripherals.

■ **MV2RAM/16**
16MBytes • DIP DRAM • 400ns Read Cycle • 150ns Read Access • Q-bus Supported
Features on-board parity, jumperless addressing and is fully MicroVAX II compatible.

■ **MV2RAM/4**
2MBytes • DIP DRAM • 400ns Read Cycle • 150ns Read Access • Q-bus Supported

■ **MV2RAM/4**
4MBytes • DIP DRAM • 400ns Read Cycle • 150ns Read Access • Q-bus Supported

■ **MV2RAM/4**
8MBytes • DIP DRAM • 400ns Read Cycle • 150ns Read Access • Q-bus Supported

■ **MV2RAM/8**
2MBytes • ZIP DRAM • 400ns Read Cycle • 150ns Read Access • Q-bus Supported

■ **MV2RAM/8**
4MBytes • ZIP DRAM • 400ns Read Cycle • 150ns Read Access • Q-bus Supported

■ **MV2RAM/8**
8MBytes • ZIP DRAM • 400ns Read Cycle • 150ns Read Access • Q-bus Supported
The MV2RAM Series features jumperless addressing and is fully MicroVAX II compatible.

■ **MV3000**
8MBytes • ZIP DRAM • Q-bus Supported • $4,950

■ **MV3000**
16MBytes • ZIP DRAM • Q-bus Supported • $9,200

■ **MV3000**
32MBytes • ZIP DRAM • Q-bus Supported • $21,000
The MV3000 Series features on-board remote diagnostics.

■ **UNIRAM**
256KBytes • DIP DRAM • 450ns Read Cycle • 250ns Read Access • UNIBUS Supported

■ **UNIRAM**
512KBytes • DIP DRAM • 450ns Read Cycle • 250ns Read Access • UNIBUS Supported

■ **UNIRAM**
1MByte • DIP DRAM • 450ns Read Cycle • 250ns Read Access • UNIBUS Supported
The UNIRAM Series features full parity support, CSR, and battery back-up support.

■ **VXR781**
1MByte • DIP DRAM • 225ns Read Access • UNIBUS Supported
The VXR781 Series features battery back-up and fewer components, yielding higher reliability.

■ **VXR8600/16**
16MBytes • DIP DRAM • 400ns Read Access • Bibus Supported

■ **VXR8600/16**
16MBytes • DIP DRAM • 300ns Read Access • Bibus Supported
The VXR 8600/16 Series requires only one slot.

■ **VXR8600/4**
4MBytes • DIP DRAM • 400ns Read Access • Bibus Supported

■ **VXR8600/4**
4MBytes • DIP DRAM • 300ns Read Access • Bibus Supported
The VXR8600/4 Series features battery back-up, no switches, and jumperless addressing.

■ **VXR8800/16**
16MBytes • SMD DRAM • Bibus Supported

■ **VXR8800/32**
32MBytes • SMD DRAM • Bibus Supported

■ **VXR8800/64**
64MBytes • SMD DRAM • Bibus Supported
The VXR8800 Series features battery back-up, no switches, and jumperless addressing. Access times are processor dependent.

Dataram Corporation

■ **DR-1420**
4-8MBytes • DIP DRAM
The DR-1420 features Dataram's lifetime warranty and is supported by the Express Spares program. Dataram's products feature a lifetime warranty and are supported by the Express Spares Program.

■ **DR-2000**
1-12MBytes • ZIP DRAM • Q-bus Supported • $2,995+
The Dataram DR-2000 is 100% hardware and software compatible with DEC MicroVAX 2000 and VAXstation 2000 computers, and with DEC MS400-CA memory.

■ **DR-216**
1-2MBytes • DIP DRAM • 300ns Read Cycle • 80ns Read Access • UNIBUS/Q-bus Supported • $495+
The DR-216 is compatible with the DEC MSV11 memory for Q-bus based minicomputers.

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■ **DR-222**
4MBytes • DIP DRAM • Q-bus Supported • $1,175
The Dataram DR-222 is 100% hardware and software compatible with DEC MicroVAX II computers and MS630-BB memory.

■ **DR-224**
8MBytes • DRAM • 320ns Read Cycle • 180ns Read Access • Q-bus Supported • $1,995
The DR-224 is 100% hardware and software compatible with DEC MicroVAX II computers and MS650-CA memory.

■ **DR-244**
1MByte • DIP DRAM • UNIBUS Supported • $1,150
The DR-244 features ECC providing single-bit error correction and double-bit error detection.

■ **DR-275/3**
1MByte • DRAM • 500ns Read Cycle • 270ns Read Access • UNIBUS Supported • $695
The DR-275 Series operates with, or in place of, the DEC MS730 memory board.

■ **DR-275/5**
1MByte • DRAM • 500ns Read Cycle • 270ns Read Access • UNIBUS Supported • $850
The DR-275 Series operates with, or in place of, the DEC MS730 memory board.

■ **DR-275/8**
1MByte • DRAM • 500ns Read Cycle • 270ns Read Access • UNIBUS Supported • $850
The DR-275 Series operates with, or in place of, the DEC MS730 memory board.

■ **DR-278/1**
1MByte • DRAM • 500ns Read Cycle • 200ns Read Access • UNIBUS Supported • $675
The DR-278/1 operates with the DEC M8375 memory controller board. Please note that 1MB and 4MB boards may not be mixed within the same CPU. The 1MB board is compatible with the DEC MS780-FD.

■ **DR-278/4**
4MBytes • DRAM • 500ns Read Cycle • 200ns Read Access • UNIBUS Supported • $1,395
Memory is installed in 8MB increments using two DR-278/4 modules.

■ **DR-278/4**
4MBytes • DRAM • 500ns Read Cycle • 200ns Read Access • UNIBUS Supported • $1,395
Memory is installed in 8MB increments using two DR-278/4 modules.

■ **DR-283**
2-4MBytes • ZIP DRAM • 500ns Read Cycle • 250ns Read Access • U/Q Supported • $1,275+
The Dataram DR-283 is 100% hardware and software compatible with DEC PDP-11/83, 11/84, Q-bus MicroPDP, and MicroVAX I. The DR-283 is compatible with the DEC MSV11.

■ **DR-286/16**
16MBytes • DRAM • 560ns Read Cycle • 360ns Read Access • Bibus Supported • $6,500
The DR-286/16 is 100% hardware and software compatible with DEC VAX 8600/8650 computers and the MS86-CA, but requires on one slot.

■ **DR-286/4**
4MBytes • DRAM • 560ns Read Cycle • 360ns Read Access • Bibus Supported • $2,295
The DR-286/4 is 100% hardware and software compatible with DEC VAX 8600/8650 computers and the DEC MS86-AA memory module.

■ **DR-300/16**
16MBytes • DIP DRAM • 230ns Read Access • Q-bus Supported • $5,595
The DR-300/16 is 100% hardware and software compatible with the DEC MicroVAX/VAXstation 3X00 Series and the MS650-BA/BF memory. Available from stock.

■ **DR-300/32**
32MBytes • ZIP DRAM • 230ns Read Access • Q-bus Supported • $13,995
The DR-300/32 is the first single board design to reach 32MB in the MicroVAX III world. It is 100% hardware and software compatible.

■ **DR-300/8**
8MBytes • DIP DRAM • 230ns Read Access • Q-bus Supported • $2,895
The DR-300/8 is 100% hardware and software compatible with the DEC MicroVAX/VAXstation 3X00 Series and the MS650-AA/AF memory module. Available from stock.

■ **DR-3100DS**
2MBytes • CMOS DRAM • 3100 Supported • $1,200
The DR-3100DS is 100% hardware and software compatible with the DEC RISC based DECstation 3100 workstation, and with the DEC MS01-AA memory. Sold in sets of two 2MB boards.

■ **DR-3100VS**
8MBytes • CMOS DRAM • 3100 Supported • $4,800
The DR-3100VS memory board is 100% hardware and software compatible with the DEC VAXstation 3100 workstation and gives Model 30 and Model 40 users 16MB and 24MB of total memory.

■ **DR-3100VS**
16MBytes • CMOS DRAM • 3100 Supported • $9,600
The 16MB version of the DR-3100VS gives DEC VAXstation 3100 Model 30 users a total of 24MB of memory and takes Model 40 users to the maximum 32MB.

■ **DR-3100VS**
24MBytes • CMOS DRAM • 3100 Supported • $14,400
The 24MB version is the first innovative solution that allows DEC VAXstation 3100 Model 30 users to expand to the 32MB maximum and preserve all 8MB of DEC memory originally purchased.

■ **DR-3100VS**
12MBytes • CMOS DRAM • 3100 Supported • $7,200
The 12MB version of the DR-3100VS takes Model 30 users to a system total 20MB and Model 40 users to 28MB of system memory. All DR-3100VS memories are 100% DEC hardware and software compatible.

Digital Data Systems, Inc.

■ **DDS 750**
1MByte • DRAM • 500ns Read Cycle • 270ns Read Access • UNIBUS Supported • $575
The DDS 750 utilizes 256Kx1 DRAM technology, providing lower power consumption, lower component count, and higher reliability. This model is also available with socketed memory, and when ordered, two spare memory chips are also included.

■ **DDS 780-1**
1MByte • DRAM • 500ns Read Cycle • 200ns Read Access • UNIBUS Supported • $600
Sockets are available options.

■ **DDS 780-4**
4MBytes • DRAM • 500ns Read Cycle • 200ns Read Access • UNIBUS Supported • $1,275
This memory board features Digital Data's exclusive 'Error-free' operation, resulting in excellent operating reliability. Sockets are available options.

■ **DDS MV2-2**
2MBytes • 300ns Read Cycle • 165ns Read Access • Q-bus Supported

■ **DDS MV2-4**
4MBytes • 300ns Read Cycle • 165ns Read Access • Q-bus Supported
Digital Data System's exclusive "ERROR FREE" operation is another feature of the DDS MV2-2 and 2-4 products that significantly improves memory board operating reliability. Soft memory errors are virtually eliminated by solid low-noise control and address signal flow.

■ **DDS MV2-8**
8MBytes • 300ns Read Cycle • 150ns Read Access • Q-bus Supported
The DDS MV2-8 is fully compatible with DEC diagnostics, has on-board parity generation and checking and directly interfaces to high speed memory buses.

Digital Instruments Corporation

■ **QM256**
4MBytes • DRAM • 250ns Read Cycle • Q-bus Supported • $2,650
The QM256 is a 4MB, I/O mapped board that does not use system address space and that is independent of the MPU. Row or column access at DMA speeds is ideal for electronic imaging and very large arrays. Multiple boards allow 32MB in 16- to 22-bit Q-bus backplanes for MicroVAX II and LSI-11 systems. The QMDISK is a RAM disk driver that may be used in conjunction with the QM256.

EMC Corporation

■ **EMCVT-780-16**
16MBytes • UNIBUS Supported • $17,900+
This product replaces a 16KB RAM system in the CPU with an EMC 64KB or 256KB RAM system with 16MB, providing an additional capacity of up to 64MB of main memory.

■ **MVX 3000**
8MBytes • Q-bus Supported

■ **MVX 3000**
16MBytes • Q-bus Supported
The MVX 3000 boards require VMS version 4.6.

■ **MVXII-8MB**
8MBytes • RAM • Q-bus Supported • $16,000

■ **Stretch-15**
15MBytes • UNIBUS Supported • $7,900
Stretch-15 enables systems to be configured with the exact amount of storage that is necessary for computing requirements, in addition to providing room for future growth.

■ **VX1MB-750**
1MByte • DRAM • UNIBUS Supported • $1,800

■ **VX1MB-780**
1MByte • RAM • UNIBUS Supported • $1,800

■ **VX4MB-750**
4MBytes • DRAM • UNIBUS Supported

■ **VX4MB-780**
4MBytes • RAM • UNIBUS Supported • $5,100

■ **VX86-16MB**
16MBytes • RAM • Bibus Supported • $58,000

■ **VXMI-16MB**
16MBytes • RAM • Bibus Supported

■ **VXMI-64**
64MBytes • Bibus Supported • $23,900
Each EMC memory board requires only one slot.

International Data Technology

■ **IDT-386**
1MByte • UNIBUS Supported • $750

■ **IDT-389**
4MBytes • UNIBUS Supported • $2,200

■ **IDT-397**
4MBytes • UNIBUS Supported • $6,000

MCS Computer Products, Inc.

■ **NX750-SPU**
UNIBUS Supported • $3,875+
The NX750-SPU is a memory upgrade and CPU enhancement kit that increases CPU throughput up to 30%; also available separately.

Monolithic Systems Corporation

■ **MSC 3205**
24MBytes • 280ns Read Cycle • 240ns Read Access • UNIBUS Supported
This MSC 3205 model GigaRAM subsystem uses up to eight MSC 3924 24MB memory boards. These subsystems may be chained together to provide up to 4GB of storage.

■ **MSC 3210**
24MBytes • 280ns Read Cycle • 240ns Read Access • UNIBUS Supported
This MSC 3210 model GigaRAM subsystem uses up to 16 MSC 3924 24MB memory boards. These subsystems may be chained together to provide up to 4GB of storage.

■ **MSC 4931**
16MBytes • RAM • 280ns Read Cycle • 240ns Read Access • Q-bus Supported
This MSC 4931 is fully DEC MicroVAX II compatible, DEC MS630 equivalent, supports parity generation and checking and features socketed memory.

■ **MSC 4937**
8MBytes • RAM • Q-bus Supported
The MSC 4937 is fully DEC MS630 equivalent, supports parity generation and checking, error LEDs, and soldered memory.

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National Semiconductor Corporation

■ **NS753**
1MByte • RAM • 500ns Read Cycle • 225ns Read Access • UNIBUS Supported

■ **NS789**
1MByte • RAM • 350ns Read Cycle • 180ns Read Access • UNIBUS Supported

■ **NS789**
4MBytes • RAM • 350ns Read Cycle • 180ns Read Access • UNIBUS Supported

■ **NS865**
16MBytes • 420ns Read Cycle • 300ns Read Access • Bibus Supported
The NS Series is equipped with spare RAMs on-board.

Nemonix, Inc.

■ **NX2000-12**
12MBytes • Q-bus Supported
A cost effective alternative, the NX2000-12 upgrades systems to 14MB using 2MB resident memory. It is designed for the VAXstation 2000 and the MicroVAX 2000.

■ **NX2000-16**
16MBytes • DRAM • Q-bus Supported

■ **NX2000-8**
8MBytes • DRAM • Q-bus Supported
The NX2000-8 and -16 are designed for the VAXsystem 2000 and the VAXstation 2000.

■ **NX75-1**
1MByte • DRAM • 500ns Read Cycle • 270ns Read Access • UNIBUS Supported

■ **NX75-1**
1MByte • DRAM • 500ns Read Cycle • 270ns Read Access • UNIBUS Supported

■ **NX75-1**
1MByte • DRAM • 500ns Read Cycle • 270ns Read Access • UNIBUS Supported
This model incorporates 256KB DRAM technology for greater reliability and also may be upgraded with memory (NX750-MU) or special performance (NX750-SPU) kits.

■ **NX75-4**
4MBytes • DRAM • 500ns Read Cycle • 270ns Read Access • UNIBUS Supported
This board is designed for use in conjunction with the NX0075 or the DEC L0022 controller to provide 4MB of storage capacity.

■ **NX750-MV**
4MBytes • DRAM • UNIBUS Supported
This product is a memory upgrade kit for the VAX11/750 Series. It includes a standalone memory diagnostic to verify memory integrity and to promote self-maintenance.

■ **NX750-SPU**
4MBytes • DRAM • UNIBUS Supported
This model is a special performance upgrade kit for the VAX 11/750 Series. It extends the life of the CPU by increasing its information processing up to 25%.

■ **NX78-4**
4MBytes • RAM • 500ns Read Cycle • 225ns Read Access • UNIBUS Supported

■ **NX78-8**
8MBytes • DRAM • 500ns Read Cycle • 225ns Read Access • UNIBUS Supported
Cost effective 1MB DRAM technology. Adding memory increases system performance up to 20%.

■ **NX86-16**
16MBytes • DRAM • 280ns Read Cycle • Bibus Supported
Features cost effective 1MB DRAM technology.

■ **NXII-16**
16MBytes • DRAM • 320ns Read Cycle • Q-bus Supported

■ **NXII-8**
8MBytes • DRAM • 320ns Read Cycle • Q-bus Supported
The NXII-16 an -8 are compatible with the MicroVAX II. Memory diagnostics are included for self-maintenance.

■ **NXII-E16**
16MBytes • DRAM • 320ns Read Cycle • Q-bus Supported
The NXII-E16 memory board prevents MicroVAX II process/VMS halts due to single bit errors. The EDC scheme corrects all single bit errors allowing the system to continue without halting.

See First Technology, Inc.

■ **Simm Module Upgrade**
4MBytes
The DEC 3100 RISC Workstation Simm Module Upgrade may be upgraded to 24MB in 4MB increments. It provides high performance at substantially low prices.

Standard Memories

■ **BUSCOMM 70S**
1536KBytes • MOS RAM • 700ns Read Cycle • 550ns Read Access • UNIBUS Supported
The BUSCOMM 70S features socketed RAMs as well as two spare RAMs on-board.

■ **PINCOMM 23SX**
2MBytes • 450ns Read Cycle • 200ns Read Access • UNIBUS Supported
This model includes socketed RAMs, block mode and standard selection 22-bit addressing.

■ **PINCOMM 24S**
1MByte • MOS • 450ns Read Cycle • 425ns Read Access • UNIBUS Supported
This model features socketed RAMs and is equipped with spare RAMs on-board.

■ **PINCOMM 3000S**
16MBytes • MOS • 450ns Read Cycle • 150ns Read Access • Q-bus Supported
This model features socketed RAMs and is equipped with spare RAMs on-board, and is designed for MicroVAX/3000 Series and workstations.

■ **PINCOMM 44S**
1MByte • MOS • 550ns Read Cycle • 440ns Read Access • UNIBUS Supported

■ **PINCOMM 616S**
8-16MBytes • MOS • 400ns Read Cycle • 180ns Read Access • Q-bus Supported

■ **PINCOMM 630S**
4MBytes • MOS • 400ns Read Cycle • 180ns Read Access • Q-bus Supported
The PINCOMM 44S, 616S, and 630S feature socketed RAMs and are equipped with spare RAMs on-board.

■ **PINCOMM 730S**
1MByte • MOS RAM • 650ns Read Cycle • 320ns Read Access • 11/730 Supported
This model includes socketed RAMs as well as two spare RAMs.

■ **PINCOMM 73S**
4MBytes • MOS • 450ns Read Cycle • 150ns Read Access • Q-bus Supported
Features socketed RAMs and is equipped with spare RAMs on-board.

■ **PINCOMM 750S+**
1MByte • MOS RAM • 650ns Read Cycle • 320ns Read Access • 11/750 Supported
This board is compatible with DEC VAX 11/750-CA CPUs or other 11/750 CPUs that have been upgraded with the DEC MS750-Dx upgrade kit. It includes socketed RAMs as well as two spare RAMs.

■ **PINCOMM 750SD**
1MByte • MOS RAM • 650ns Read Cycle • 320ns Read Access • UNIBUS Supported
This board is compatible with the DEC MS750Dx memory upgrade kit. It includes socketed RAMs as well as two spare RAMs.

■ **PINCOMM 750SX**
4MBytes • MOS RAM • 650ns Read Cycle • 320ns Read Access • UNIBUS Supported
This board is compatible with the DEC MS750Hx memory and L0022 controller boards as well as the Standard Memories upgrade kit PINCOMM 750SX-UPGx with the MC750 controller.

■ **PINCOMM 750SX-UPG2**
4MBytes • MOS RAM • 650ns Read Cycle • 320ns Read Access • UNIBUS Supported

■ **PINCOMM 750SX-UPG3**
4MBytes • 650ns Read Cycle • 320ns Read Access • UNIBUS Supported

■ **PINCOMM 780SX**
1MByte • MOS RAM • 500ns Read Cycle • 200ns Read Access • UNIBUS Supported
This board may be used only with CPUs that have MS780E or MS780H memory. Boards with differing storage capabilities (1MB or 4MB) may not be mixed in one configuration. It includes socketed RAMs as well as two spare RAMs.

■ **PINCOMM 860SX**
16MBytes • MOS • 560ns Read Cycle • 640ns Read Access • Bibus Supported
This model features socketed RAMs and is equipped with two spare RAMs on-board.

TERMINALS & WORKSTATIONS

DISPLAY TERMINALS

Model	Monitor Size	Split Screen	Phosphor Color	Multisessioning	# of Function Keys	Terminal Emulation	# of Rows	# of Columns	Max Baud Rate (bps)	Serial/Parallel	Warranty	Price
Applied Digital Data Systems 516 231-5400												
ADDS 3220	14"	Y	A/G/W		22	VT52/100/220	24	80/132	19.2K	Y/Y	1 yr	$595
ADDS 3320	14"	Y	A/G/W			VT320	25	80/132	19.2K	Y/-	1 yr	$595
ADDS 3320 TOUCH	14"	Y	A/G/W			VT320	25	80/132	19.2K	Y/-	1 yr	$1,595
AT&T Information Systems 201 898-8000												
4424	13"	Y				VT100	24	80		Y/-		
4425	12"	Y				VT100	24	80		Y/-		
510	9"					VT100	27	80		Y/-		$1,795
510A	9"					VT100	27	80		Y/-		$1,645
VideoComm						VT100				Y/-		
Burr-Brown 602 746-1111												
TM8500										Y/-		$1,095
TM8550										Y/-		$1,095
C.Itoh Electronics, Inc. 714 757-4485												
310	14"	Y	A/G/W		45	VT100/102/220	24/25	80/132	19.2K	Y/-	1 yr	$749
7100	14"					VT100	25	80		Y/-		$645
7800	14"					VT100	43	80		Y/-		$1,695
7900	13"					VT100				Y/-		$1,695
CIT-101XL	14"		A/G/W		16	VT100	24	80/132	38.4K	Y/-	1 yr	$699
CIT-326	14"	N	A/G/W		45	VT100/102/220	24	80/132	19.2K	Y/N	1 yr	$649
CIT-50+	14"		A/G		16	VT52/100/102	24	80/132	38.4K	Y/-	1 yr	$649
Chi Corporation 216 831-2622												
MP-Series 2	14"	Y	A/G/W		22	VT100/102/220			19.2K	Y/Y	90 d	$875
Control Module, Inc. 203 745-2433												
1409						VT52/100						
Cybernex Ltd. 613 738-9301												
RG-220 Turbo	14"		A/G		43	VT100/220	24	80/132	38.4K	Y/-		$795
Datastream Networking 408 986-8022												
8178	14"					VT100/220	24	80		Y/-		$750
8180	14"					VT100/220	27	80/132		Y/-		$1,095
Datawatch Corporation 617 932-0550												
220	14"					VT220				Y/-		
Davox Corporation 508 667-4455												
MultiFunction Workstation	12"					VT100	24	80		Y/-		$1,295
Delta Data Systems Corp. 301 290-6400												
DD 100T Tempest	14"	Y	G		4	VT100	24	80/132	19.2K	Y/N	90 d	$3,700
DD 125T Tempest	14"	Y	G		4	VT100/125	24	80/132	19.2K	Y/N	90 d	$4,910
DD 220T Tempest	14"	Y	G		16	VT52/100	25	80/132	38.4K	Y/N	90 d	$2,769
Direct Service and Repair 408 980-1414												
831	12"	Y				VT52/100	24	80/132		Y/-		$895
VP828	12"	Y				VT52	24	80/132		Y/-		$1,395
Electro Mechanical Systems 217 359-7125												
TID	12"		A/G			VT100	25	80	19.2K	Y/-		$980

DISPLAY TERMINALS

Model	Monitor Size	Split Screen	Phosphor Color	Multisessioning	# of Function Keys	Terminal Emulation	# of Rows	# of Columns	Max Baud Rate (bps)	Serial/Parallel	Warranty	Price
Electrohome, Ltd. 519 744-7111												
EDM 926	9"		G									
EVM Series	9"											$635+
Esprit Systems, Inc. 408 746-0825												
Opus 220	14"	Y	A/G		18	VT52/100/220	24	80/132	38.4K	Y/-	1 yr	$569
Opus 3n1+	14"	Y	A/G/W		16	VT220	24	80/132	38.4K	Y/-	1 yr	$599
Falco Data Products 800 835-2648												
542	14"	Y	A/G/W		16	VT52/100/220	25/40	80/132	38.4K	Y/N	1 yr	$1,125
Fargo Electronics, Inc. 612 941-9470												
WD-50	14"	Y	A/G		16		24	80/132	38.4K	Y/N		$1,895
Gen Term Corporation 714 662-0630												
SW10						VT52/100	24	80		Y/-		$649
SW80						VT52/100	24	80		Y/-		$949
GPC Technology Corporation 318 686-1600												
GPC 1100	14"	Y	G		16	VT100	25	80/132	19.2K	Y/N	1 yr	$2,895
Graphics Development Corporation 614 766-0440												
ID-200A	13"					VT52/100/220	24	80/132	38.4K	Y/-		$3,295
Harris Corporation 800 442-7747												
VA 8691						VT220				Y/-		$995
VG 8691						VT220				Y/-		$1,585
Hewlett-Packard Company 415 857-1501												
700/22	14"	N	A/G/W		30	VT52/100/220	24	80/132	38.4K	Y/N	1 yr	$575
700/92	14"	N	A/G/W		8	VT52/100/220	24	80/132	38.4K	Y/N	1 yr	$895
700/94	14"	N	A/G/W		8	VT52/100/220	24	80/132	38.4K	Y/N	1 yr	$1,095
Honeywell Information Systems 612 870-5200												
HDS 7403	14"					VT52/100/220	25	80/132		Y/-		
HDS 7404	14"					VT52/100/220	25	80/132		Y/-		
Human Designed Systems 800 437-1551												
HDS 2000	15"	Y	A/G*/W*		42	VT52/100	24	80/132	19.2K	Y/-	1 yr	$995
HDS 2010	15"	Y	A/G/W		55	VT220	25	80/132	19.2K	Y/N	1 yr	$1,295
IBM Corporation 800 IBM-7257												
3163	12"	Y				VT52/100	25	80				$1,095
Informer Computer Terminals 714 891-1112												
203-100	9"		G		11	VT52/100	24	80			1 yr	
205-100	12"		G		11	VT52/100	24	80			1 yr	
207-100	9"		G		11	VT52/100	24	80			1 yr	
207-102	9"		G		11	VT102	24	80			1 yr	
207/220	9"		G		15	VT/220	24	80/132			1 yr	
Kimtron Corporation 800 828-8899												
KT-220	14"	Y	A/G		15	VT52/100/220	24	80/132	38.4K	Y/-	1 yr	$599
KT-220 Advanced	14"	Y	A/G		15	VT52/100/220	24	80/132	38.4K	Y/-	1 yr	$599
KT-220/PC	14"	Y	A/G			VT52/100/220	24	80/132	38.4K	Y/-	1 yr	$599
KT-50	14"		A/G		40	VT52	24	80/132	19.2K	Y/-	1 yr	$349
KT-70	14"		A/G/W			VT52/100	24	80	19.2K	Y/-	1 yr	$599
Lanpar Technologies, Inc. 416 475-9123												
3220										Y/-		$1,025
Vision II-4200	14"	N	A/G/W		15	VT220	24	80/132	19.2K	Y/N	1 yr	$699
Vision II-4200-I	14"	N	A/G/W		15	VT220	24	80/132	19.2K	Y/N	1 yr	$1,995
Vision II-4210	14"	N	A/G/W		15	VT100	24	80/132	19.2K	Y/N	1 yr	$799

DISPLAY TERMINALS

Model	Monitor Size	Split Screen	Phosphor Color	Multisessioning	# of Function Keys	Terminal Emulation	# of Rows	# of Columns	Max Baud Rate (bps)	Serial/Parallel	Warranty	Price
Lee Data Corporation 612 828-0523												
1222	15"	Y	A/G		24	VT52/100/220	24/43	80/132	19.2K	Y/Y		$1,995+
Liberty Electronics 415 742-7000												
Freedom 220						VT52/100/220				Y/Y		$745
Freedom 222						VT52/100/220				Y/-		$945
Freedom ONE ANSI	14"		A		15	VT52/100/220	24	80/132	38.4K	Y/-		$499
Freedom ONE Plus	14"		A/G		15	VT52/100/220	24	80/132	38.4K	Y/-		$499
Freedom ONE Turbo	14"		A/G		15	VT52/100/220	24	80/132	38.4K	Y/-		$599
Link Technologies, Inc. 415 651-8000												
125	14"		A/G/W		32			80/132	38.4K	Y/-		
220	14"	Y	A/G/W		38	VT100/132/220	26	80/132	38.4K	Y/-	1 yr	$595
220WP	14"		A/G/W			VT100/220	26	80/132	38.4K	Y/-		$649
MC10	14"		A/G/W		40	VT100/220/320	24/44	80/132	38.4K	Y/-		$595
MC2	14"		A/G				25	80	19.2K	Y/Y		$409
MC3	14"	Y	A/G/W		32	VT100	25/44	80/132	38.4K	Y/Y	3 yrs	$565
MC5	14"		A/G/W					80/132	38.4K	Y/-		
LXE 404 447-4224												
2020												
2020-IS												
2020-LT												
2020-T												
Micro-Term Inc. 314 822-4111												
4520	14"	Y	W		15	VT52/100/220	24	80/132	38.4K	Y/-	2 yrs	$695
4525	14"	Y	W		15	VT52/100/220	24	80/132	38.4K	Y/-	2 yrs	$695
5510	14"	Y	A*/G			VT100/220/320	24	80/132	19.2K	Y/-	2 yrs	$499
Nematron Corporation 313 994-0501												
IWS-1000	12"	Y	A		65	VT52/100	25	80	19.2K	Y/-	1 yr	$2,190
IWS-1000T	12"	Y	A		65	VT52/100	25	80	19.2K	Y/-	1 yr	$2,300
IWS-1510	12"	Y	RGB		65	VT52/100	25	80	19.2K	Y/-	1 yr	$3,390
IWS-1511T	12"	Y	RGB			VT52/100	25	80	19.2K	Y/-	1 yr	$3,500
IWS-2000	12"	Y	A		65	VT52/100	25	80	19.4K	Y/-		$3,340
IWS-2000T	12"	Y	A		65	VT52/100	25	80	19.4K	Y/-	1 yr	$3,450
IWS-2510	12"	Y	RGB		65	VT52/100	25	80		Y/-	1 yr	$4,390
IWS-2511T	12"	Y	RGB		40	VT52/100	25	80	19.4K	Y/-	1 yr	$4,500
IWS-3005	8"	Y	A			VT100	16	80	19.2K	Y/-	1 yr	$1,090
IWS-3005T	8"	Y	A		40	VT100	16	80	19.2K	Y/-	1 yr	$1,440
Networx Data Products Co. 516 864-5800												
Ditto 221XL	14"		A/G		15	VT100/102/220	24	80/132	19.2K	Y/-	4 yrs	$499
Ditto 320XL	14"		A/G		15	VT100/220/320	24	80/132	19.2K	Y/-	3 yrs	
Northern Telecom, Inc. 800 558-9936												
Displayphone220	9"	N	A		32	VT52/100/220	24	80/132	19.2K	Y/Y	1 yr	$895
Perfect Terminals, Inc. 800 624-6422												
P411	14"					VT100	26	80/132		Y/-		$795
Plexus Computers, Inc. 408 943-9433												
6110A	14"					VT100	24	80/132		Y/-		
Qume Corporation 408 942-4000												
QVT 201	14"		A*/G		17	VT100	24	80/132	38.4K	Y/Y	1 yr	$695
QVT 203+	14"		A*/G/W*		15	VT52/100/220	24	80/132	38.4K	Y/-	1 yr	$645
QVT103	14"		A*/G		12	VT52/100/131	24	80/132	19.2K	Y/Y	1 yr	$895

DISPLAY TERMINALS

Model	Monitor Size	Split Screen	Phosphor Color	Multisessioning	# of Function Keys	Terminal Emulation	# of Rows	# of Columns	Max Baud Rate (bps)	Serial/Parallel	Warranty	Price
Qume Corporation 408 942-4000 (continued)												
QVT202	14"		A*/G		17	VT220	24	80/132	19.2K	Y/-	1 yr	$595
Random Corporation 513 825-0880												
Colleague	10"	Y	A/B		20	VT52/100/220	25	80	19.2K	Y/Y	90 d	$995
Colleague Plus	10"	Y	A/B		20	VT52/100/220	25	80	19.2K	Y/Y	90 d	$1,295
RCA Business Services 609 486-5526												
Interactive Display	14"	Y				VT100				Y/-		
Samsung Electron Devices America, Inc. 213 802-8425												
SAMTRON SD-220	14"		A/G/W		20	VT100/220	24	80/132	19.2K	Y/-	1 yr	$499
SAMTRON SD-50	14"		A/G/W		14		24	80	19.2K	Y/-	1 yr	$399
Summus Computer Systems 713 492-6611												
SUM 326	14"	Y	A/G/W		45	VT 320	24	80/132	38.4K	Y/Y	1 yr	$695
Tatung Company of America 213 637-2105												
TVT7220						VT220						$549
Teco American 714 670-2722												
VA120	12"	Y				VT100	24	80/132		Y/-		
VA220	14"	Y				VT100/220	24	80/132		Y/-		
Telefile Computer Products 714 250-1830												
T3510	14"					VT100	24	80/132		Y/-		
Teleray 612 941-3300												
20-DDG	14"	Y	A/G/W		20	VT220	24	80/132	19.2K	Y/N	90 d	$895
20-DHP	14"	Y	A/G/W		32	VT100/220	24	80/132	19.2K	Y/N	90 d	$895
TEL 2	14"	Y	A/G/W		32	VT102	24	80/132	19.2K	Y/N	90 d	$800
TEL 5	14"	Y	A/G/W		32	VT100	24	80/132	19.2K	Y/N	90 d	$900
TEL 7	14"	Y	A/G/W		32	VT52/102	24	80/132	19.2K	Y/N	90 d	$1,100
TeleVideo Systems, Inc. 408 745-7760												
9220	14"	N	A/G		30	VT52/100/220	24	80/132	19.2K	Y/N	1 yr	$619
965	14"	N	G/W		32	VT100	49	80/132	38.4K	Y/N	1 yr	$599
Texas Instruments, Inc. 800 527-3500												
TravelMate 1200	11"				4	VT100	16	80	1200	Y/-	90 d	$1,295
TravelMate LT220	11"				10	VT220	25	80	9600	Y/-	90 d	$899
Thomas Engineering Company 415 680-8640												
TE 780X	14"					VT100	25	80		Y/-		$1,350
Trendcom, Inc. 415 490-1291												
1923	9"					VT52/100	24	80		Y/-		$1,795
1924	9"					VT52/100	24	80		Y/-		
1925	9"					VT52/100				Y/-		
Tristar Technology 201 784-1557												
VEGA VDT-300	14"	N	A*/G/W*			VT100/220	24-27	80/132	38.4K	Y/-	1 yr	$385
Unisys Corporation 215 542-2240												
SVT1210						VT52/100	24	80/132		Y/-		$695
SVT1220						VT52/100/200	24	80/132		Y/-		$995
UVT1224	14"					VT52/100/220	24	80/132		Y/-		$695
Visentech Systems, Inc. 800 248-5931												
VS-230PC	14"	Y	A/G/W		45	VT220	24/24	80/132	38.4K	Y/Y	1 yr	$565
VS220	12"	Y	A/G		36	VT52/100/220	24	80/132	19.2K	Y/-	1 yr	$399
VS230	14"	Y	A/G/W		45	VT100/131/220	24/34	80/132	38.4K	Y/Y	1 yr	$495
VS230E	14"	Y	A/G/W		45	VT220/330/320	24/34	80/132	38.4K	Y/Y	1 yr	$549

DISPLAY TERMINALS

Model	Monitor Size	Split Screen	Phosphor Color	Multisessioning	# of Function Keys	Terminal Emulation	# of Rows	# of Columns	Max Baud Rate (bps)	Serial/Parallel	Warranty	Price
Volker-Craig Ltd. 800 265-8883												
VC 6220	14"	Y	A*/G/W*		20	VT220	27	80/132	38.4K	Y/-	1 yr	$695
Wicat Systems 800 453-1145												
T7100	14"					VT100/132	24	80/132		Y/-		
Wyse Technology 408 433-1000												
WY-60	14"		A/G/W		16	VT52/100	26/44	80/132	19.2K	Y/-		$599
WY-85	14"		A/G		15	VT52/100/220	24/25	80/132	19.2K	Y/-		$499
Xycom, Inc. 313 429-4971												
4810E	9"		G		6	VT100/220	25	80	19.2K	Y/-	1 yr	$1,550
4810ER	9"		G		4	VT100/220	25	80	19.2K	Y/-	1 yr	$1,500
4850A	12"		RGB		16	VT100/220	25	80	19.2K	Y/-	1 yr	$2,700
4860A	12"		A		16	VT100/220	25	80	19.2K	Y/-	1 yr	$1,750
4870	9"		A		6	VT100/220	25	80	19.2K	Y/-	1 yr	$2,950
Zenith Data Systems 312 391-8860												
Z39	12"					VT52/100	24	80		Y/-		$599
Z49	14"					VT52/100	24	80/132		Y/-		$799
ZTX-11						VT52				Y/-		$399

GRAPHICS TERMINALS

Model	Monitor Size	Color/ Monochrome	Resolution (dpi)	3-D	Windowing	Terminal Emulation	Displayable Colors	Color Palette	Max Baud Rate (bps)	Serial/Parallel	# of Function Keys	Price
Advanced Electronics Design, Inc. (AED) 800 538-1730												
1024	19"	C	1024x767			VT100*	256	16.7m	19.2K	Y/*		$13,295
1280	19"	C	1280x1024			VT100*	256	16.7m	56K	Y/*		
512	19"	C	512x483			VT100*	256	16.7m	19.2K	Y/*		$9,045
767	19"	C	767x575			VT100*	256	16.7m	19.2K	Y/*		$11,095
Alliant Computer Systems Company 508 486-1451												
Model One/85S	19"	C	1280x1024		Y	VT100	256	16.7m	19.2K	Y/-	12	$21,500
One/385	19"	C	1280x1024	Y	Y	VT100	256	16.7m	19.2K	-/Y		
One/85S	19"	C	1280x1024		Y	VT100	256	16.7m	19.2K	Y/-		$18,500
Aristo Graphic Corporation 201 366-7000												
Signus		M	1024x780			VT100						$50,000+
Aydin Controls 215 542-7800												
4100/EGS	19"	C	640x350	Y	Y		16	256	19.2K	Y/Y	48	$4,995
5215	13"	C	560x336	Y	Y		8	8	38.4K	Y/Y	90	$17,000
5217	13"	C	560x336	Y	N		8	8	38.4K	Y/Y	45	$2,995
5319	19"	C	560x336	Y	N		8	8	38.4K	Y/Y	48	$2,825
Bell & Howell Company 312 675-7600												
IDT 1000	15"					VT100						$9,000
IDT 1100	17"					VT100						$9,000
IDT 2000	19"					VT100						$9,000

GRAPHICS TERMINALS

Model	Monitor Size	Color/ Monochrome	Resolution (dpi)	3-D	Windowing	Terminal Emulation	Displayable Colors	Color Palette	Max Baud Rate (bps)	Serial/Parallel	# of Function Keys	Price
C.Itoh Electronics, Inc. 714 757-4485												
CIT-328	14"	M	1024x384			VT320			38.4K	Y/-	45	$699
CIT-334/344	14"	M	800x500	N	Y	VT330/340			38.4K	Y/Y	45	$1,895
CIT-344	15"	C	300x500	N	Y	VT220/340	16	262,144	38.4K	Y/Y	45	$2,895
Cermetek Microelectronics 800 862-6271												
CT 100	9"					VT100						
Chromatics 404 493-7000												
CX2000 BAJA	19"	C	1280x1024	Y	Y	VT100	1.3m	16.7m	19.2K	Y/-	20	$27,283
CX2000 LeMANS	19"	C	1280x1024	Y	Y	VT100	1.3m	16.7m	19.2K	Y/-	20	$21,443
CXII 2-D			1536x1152	N								$39,995
CXII 3-D			1536x1152	Y								$39,995
Codonics Inc. 216 243-1198												
1575	14"	M	1024x800			VT52/100			38.4K	Y/-	32	$1,895
4096	19"	M	16Kx12K	Y		VT100/220/320				Y/Y		$3,495
Colorgraphic Communications Corporation 404 455-3921												
480/820	13"	C	160x240	N	Y	VT52/100	8	8	38.4K	Y/N	24	$2,600
480XL/820XL	13"	C	640x480	N	Y	VT52/100	16	8	38.4K	Y/N	24	$4,000
489/829	19"	C	240x160	N	Y	VT52/100	8	8	38.4K	Y/N	24	$3,000
489XL/829XL	19"	C	640x480	N	Y	VT52/100	16	8	38.4K	Y/N	24	$4,400
CEBRA 286	19"	C	640x480	N	Y	VT52	16	8	38.4K	Y/Y	24	$4,000
XL-13K	13"	C	640x480	N	Y	VT52	16	8	38.4K	Y/N	24	$3,000
XL-19K	19"	C	640x480	N	Y	VT52	16	8	38.4K	Y/N	24	$3,400
Computer Design & Applications, Inc. 617 647-1900												
MaxDelta	13"	C	512x480									$150,000
Cybernex Ltd. 613 738-9301												
GR1014	14"	M	1024x780			VT52/100						$1,795
MAX 331	14"	M	800x500	N	Y	VT330			19.2K	Y/-		$1,395
Daisy Data, Inc. 717 732-8800												
3354	14"	C	640x300	N	N	VT131	8	8	19.2K	Y/N		$5,350
3364	14"	C	640x300	N	N	VT131	8	8	19.2K	Y/N		$7,995
Davox Corporation 508 667-4455												
1900	12"					VT52/100						$1,895
4900	12"					VT100/220						$2,695
5900	12"					VT100/220						$2,995
Digital Electronics Corporation 415 471-4700												
ST 3220		M	640x640			VT100			38.4K	Y/-		$4,950
Eastmark, Inc. 508 453-9150												
GTR01	14"	M	1024x768		Y	VT220				Y/-		$1,795+
Electrohome, Ltd. 519 744-7111												
ECM 1200	12"	C										$2,179
ECM 1300	13"	C										$1,198
ECM 1900 Series	19"	C	1024x512									$2,695
ECM 1901	19"	C										$2,160
ECP 2000	5-14"	C	1280x1024			VT241						$11,995
ECP 3000	5-25"	C	1280x1024			VT241						$14,995
ECP 4000		C	1280x1024									$22,995
ECP Graphics	5-14"	C	1280x1024			VT241						$21,995
EDP 58XL	4-10"	M				VT100/220/240						$3,195

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VT330™	text/graphics terminal with dual session
VT340™	text/graphics color terminal w/dual session

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LA75™	companion printer
LA210™	letterprinter
LA120™	DECwriter III
LN03™ +	upgraded-laser printer family
LJ250™	companion color printers
LA100-CA™	Letterwriter

DECSERVERS

DSRVB-AA-200™	terminal server-EIA
DSRVB-BA-200™	terminal server-MMJ
DSRVS-AA™	
DSRVS-BA™	(16-128 port)

COMMUNICATIONS

DHQ11™	DMA Async, 8 line Q-bus adapter
DZQ11™	Async, 4 line Q-bus adapter
DHU11™	16 line Unibus Async adapter
DELQA™	Q bus ethernet adapter
DEQNA™	Q bus ethernet adapter
DELUA™	Unibus ethernet adapter
DMV11-N™	Multipoint CCITTV.35

ETHERNET™

DELNI™	thickwire ethernet interface
DEMPR™	thinwire multiport repeater
DESPR™	thinwire singleport repeater
DEREP™	ethernet repeater
DEBET™	extended LAN interface
DESTA™	thinwire station adapter
H4005™	thickwire transceiver

MODEMS

DF242™	2400/1200/300 bps modem
DF224™	2400/1200/6 ps modem
DF127/DF129™	modems

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GRAPHICS TERMINALS

Model	Monitor Size	Color/ Monochrome	Resolution (dpi)	3-D	Windowing	Terminal Emulation	Displayable Colors	Color Palette	Max Baud Rate (bps)	Serial/Parallel	# of Function Keys	Price
Encore Computer Corporation 800 336-2673												
110	19"	M	1056x864			VT100						$3,995
Falco Data Products 800 835-2648												
5000	14"	M	1120x400	N	Y	VT100/220			38.4K	Y/Y		$795
500e	14"	M	560x400	N	Y	VT100/220			38.4K	Y/*		$645
5220e	14"	M	560x400	N	Y	VT100/220			38.4K	Y/*		$595
5600	14"	M	560x400	N	Y	VT100			38.4K	Y/*		$595
GE Calma Company 408 434-4000												
G100	19"	C	1280x1024	Y			4096	16m	19.2K	Y/Y		
G100	19"	C	1280x1024	Y			4096	16m	19.2K	Y/Y		
Project Review	19"	C	1280x1024	Y			4096	16m	19.2K	Y/Y		
Genisco Peripheral Systems 714 220-0720												
1200	19"	M	1024x792			VT100						$10,790
2200	19"	C	1024x792			VT100						$9,950
Graphics Development Corporation 614 766-0440												
1024	14"	C	1024x780			VT52/100/220						$4,995+
GAMMA	14"	C	640x480		Y	VT52/100/220	16	4096	38.4K	Y/-		$1200
ID-1024	13"	C	1024x780			VT52/100/220	16	4096	38.4K	Y/-		$4,995
ID-1024	19"	C	1024x780			VT52/100/220	256	4096	38.4K	Y/-		$6,995
ID-200	13"	C	1280x480			VT52/100/220	8	8	38.4K	Y/-		$4,295
GraphOn Corporation 408 435-8400												
GO-405	14"	C	800x500			VT220/340	16	4096	57.6K	Y/Y	45	$2,995
GO-407	14"	C	640x480			VT220/340	256	16m	57.6K	Y/Y	45	$3,795
GO-407 HR	14"	C	1024x768		N	VT220/340	256	16m	57.6K	Y/Y	45	$5,995
GO-225	14"	M	1024x390		N	VT52/100/220	1	1	19.2K	Y/Y	45	$795
GO-230	14"	M	1024x390		N	VT52/100/220	16	4	19.2K	Y/Y	45	$1,295
GO-235	14"	M	1024x780		Y	VT52/100/220	16	4	57.6K	Y/Y	45	$1,695
GO-240	14"	M	1024x390		Y	VT52/100/220	16	4	19.2K	Y/-	45	$1,895
GO-250	14"	M	1024x780	N	Y	VT220/240	16	4	57.6K	Y/N	45	$2,495
Hewlett-Packard Company 415 857-1501												
2393A	12"	M		N	N	VT52/100			19.2K	N/*	12	$2,295
2397A	12"	C		N	N	VT52/100	8	64	19.2K	N/*	12	$3,595
Human Designed Systems 800 437-1551												
HDS 2000G	15"	M	1024x390		Y	VT52/100/220			19.2K	Y/-	55	$1,295
HDS 2000GX	15"	M	1056x800		Y	VT52/100			19.2K	Y/-	42	$1,595
HDS 2010G	15"	M	1056x400		Y	VT52/100			19.2K	Y/-	55	$1,595
HDS 2010GX	15"	M	1056x800		Y	VT52/100			19.2K	Y/-	55	$1,895
HDS 3200-10	15"	M	1056x400		Y	VT220/320/330			38.4K	Y/-	21	$699
HDS 3200-35	15"	M	1056x800		Y	VT220/320/330			38.4K	Y/Y	21	$1,299
HDS 3220-25	15"	M	1056x800		Y	VT100/220/330				Y/Y	21	$1,099
Intecolor Corporation 404 623-9145												
4100	14"	C	480x360	N	N	VT52/100	16	64	38.4K	Y/-	48	$1,995
CT210	14"	C	160x96	N	N	VT52/100	8	64	19.2K	Y/N	12	$1,395
CT220	14"	C	1188x250	N	N	VT52/100/220	256		19.2K	Y/N	15	$1,695
Integrated Automation 415 769-5400												
DocuVision		C	1728x2240									
Interactive Machines, Inc. 818 707-1880												
IMI 600	19"	C										$100,000
IOS	19"	M										$13,500+

GRAPHICS TERMINALS

Model	Monitor Size	Color/ Monochrome	Resolution (dpi)	3-D	Windowing	Terminal Emulation	Displayable Colors	Color Palette	Max Baud Rate (bps)	Serial/Parallel	# of Function Keys	Price
Lanpar Technologies, Inc. 416 475-9123												
4200	14"					VT220						$725
MAX 331	14"	M	800x500	N	Y	VT330			19.2K	Y/N		
MAX 331I	14"	M	800x500	N	Y	VT330				Y/-		
Vision II-4214	14"	M	800x375	N	Y	VT220			19.2K	Y/N	15	$999
Vision II-4250	14"	M	800x360	N	Y	VT220			19.2K	Y/N	15	$1,099
Lee Data Corporation 612 828-0523												
2131	15"	C		N	Y	VT52/100/220			19.2K	Y/Y	24	$2,995
Lexidata 508 667-7070												
LEX 90	19"	C	640x512									$13,925+
Liberty Electronics 415 742-7000												
Freedom 240						VT220				Y/-		$1,095
McDonnell Douglas 800 325-1551												
D135	19"	C	1024x1024	Y		VT100	16	4096	19.2K	Y/-	32	$39,000
D2300	19"	C	3072x2304	Y		VT100	16	16.7m	9.6K	Y/-		$49,000
D2301	19"	C	3072x2304	Y		VT100	4096	16.7m	9.6K	Y/-		$65,000
D4107A	19"	C	1280x1024			VT100				Y/-		
D4111	19"	C	1024x768	Y		VT100	16	256	19.2K	Y/-		$14,000
D4125	19"	C	1280x1024	Y		VT100	256	16m	19.2K	Y/-		$25,000
D4128	19"	C	1280x1024	Y		VT100	256	16m	19.2K	Y/-		
D4129	19"	C	1280x1024	Y		VT100	256	16m	19.2K	Y/-		$38,000
MegaData Corporation 516 589-6800												
8188-7	15"				Y	VT100			19.2K	Y/-	32	$2,910
Megatek Corporation 619 455-5590												
7255T	19"	C	1024x1024	Y	N		16	4096	1M		15	$39,000+
7500	19"	C	1024x1024	Y	N	VT100	16	4096		Y/-	32	$23,200+
9100	19"	C	1280x1024	Y	N	VT100	256	16.7m	1M	Y/-	64	$24,500+
9300	19"	C	1280x1024	Y	N	VT100	4096	16.7m	1M	Y/-	64	$35,000+
Micro-Term Inc. 314 822-4111												
4540	14"	M	800x500		Y	VT100/220/240			19.2K	Y/-		$1,495
4560	14"	M	640x480		Y	VT100/220			38.4K	Y/-	15	$1,295
5520		M	800x500			VT220/320			38.4K			$699
5530	14"	M	800x500	N	Y	VT100/240/330			38.4K			$1,665
Miltope Corporation 516 420-0200												
TER-100		M	256x512	N		VT100				Y/Y		$27,700
Mini Computer Technology 408 435-1616												
2019W	19"	M	1024x784			VT100						
2215B	15"	M	1024x784			VT100						$3,495
2216	15"	C	640x490			VT100						$4,995
2219	19"	M	1024x784			VT100						$6,950
2219W	19"	M	1024x784			VT100						$7,950
2315	15"	M	1024x784			VT100/220						$4,995
2319	19"	M	1024x784			VT100						$8,450
2319W	19"	M	1024x784			VT100						$9,450
3219W	19"	M	2048x1568			VT100						$14,950
3220W	19"	C	2048x1568			VT100						$13,950
3220W	19"	C	2048x1568			VT100						$15,450
Modgraph, Inc. 617 229-4800												
GX-1105	14"	C	1024x768			VT52/100	16	4096	38.4K	Y/Y		$3,850

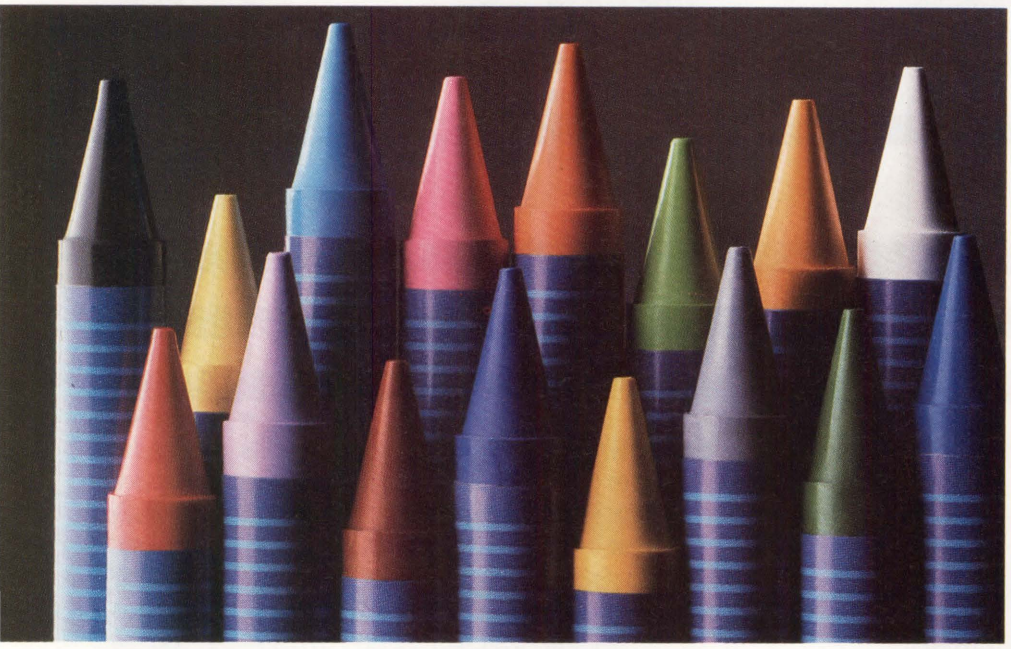
GRAPHICS TERMINALS

Model	Monitor Size	Color/ Monochrome	Resolution (dpi)	3-D	Windowing	Terminal Emulation	Displayable Colors	Color Palette	Max Baud Rate (bps)	Serial/Parallel	# of Function Keys	Price
Modgraph, Inc. 617 229-4800 (continued)												
GX-1105-19	19"	C	1024x768			VT100	16	4096	38.4K	Y/Y		$5,850
GX-2000	15"	M	1024x780			VT100/220			19.2K	Y/-		$1,295
Northwest Digital Systems 206 524-0014												
GP-220Z	14"	M	1024x780	N	N	VT52/100/220	N/A	N/A	38.4K	Y/N	25	$1,595
GP220L	14"	M	1024x780	N	N	VT52/100/220			38.4K	Y/-	25	$1,295
Panamax 800 472-5555												
GT4620	13"	C	672x504			VT100						$29,000
GT4624	19"	C	672x504			VT100						$29,000
GT4635A	19"	C	1280x1024			VT100						$49,000
GT4670	19"	C	1536x1157			VT100						$59,000
Pericom Inc. 609 895-0404												
MG100	15"	M	1024x780	N	N	VT100/220			19.2K	Y/N	23	$1,895
MG200	15"	M	1024x780	N	N	VT100/132/220			19.2K	Y/N	23	$2,195
MG600	15"	M	1024x780	N	N	VT100/132/220			19.2K	Y/-	23	$2,750
MG620	20"	M	1024x780	N	N	VT100/132/220			19.2K	Y/-	23	$3,995
MG700	17"	M	1024x780	N	N	VT100/132/220			19.2K	Y/-	23	$2,750
MX7100	14"	C	640x480	N	Y	VT100/220/240	16	256K	38.4K	Y/Y	15	$3,495
MX7200	15"	C	1024x784	N	Y	VT100/220/240	16	256K	38.4K	Y/Y	15	$4,995
MX7250	19"	C	1024x784	N	Y	VT100/220/240	16	256K	38.4K	Y/Y	15	$6,495
MX7300	15"	C	1024x784	N	Y	VT100/220/240	16	4096	38.4K	Y/Y	15	$6,995
MX7350	19"	C	1024x784	N	Y	VT100/220/240	16	4096	38.4K	Y/Y	15	$8,495
Qume Corporation 408 942-4000												
QVT 212GX	14"	M	640x480			VT100			19.2K	Y/-	8	$1,295
QVT 311GX	14"	M	640x480			VT52/125				Y/-		$1,995
QVT 511GX	14"	C	480x360		Y	VT52	8	64	19.2K	Y/-	8	$2,995
Radcal-Redac, Inc. 508 692-4900												
ColorCadet	19"	C	512x512									$50,000+
PCB600	19"	C	512x512									$175,000
Ramtek Corporation 408 988-2211												
4321	15"	C	1280x1024			VT220	256	16.7m	19.2K	Y/*		
4322	15"	C	1280x1024	N		VT220	256	4096	19.2K	Y/*		$8,995
4325	15"	C	1280x1024			VT220	256	16.7m	19.2K	Y/*		
4327	15"	C	1280x1024			VT100/220	256	16.7m	19.2K	Y/-		$15,995
4327	15"	C	1280x1024			VT220	256	16.7m	19.2K	Y/*		$15,995
4660	15"	C	1280x1024			VT100/220	4096	16.7m	19.2K	Y/-		$20,000
4660	15"	C	1280x1024		Y	VT220			19.2K	*/*		$20,000
9460	15"	C	1280x1024			VT220	2048	16m	9600	Y/Y		$28,000
9461	15"	C	1280x1024			VT220	2048	16m	9600	Y/Y		$28,000
9462	15"	C	1280x1024			VT220	2048	16m	9600	Y/Y		$28,000
9463	15"	C	1280x1024			VT220	2048	16m	9600	Y/Y		$28,000
9465		C	640x512			VT100						
9467	15"	C	1280x1024			VT220	2048	16m	9600	Y/Y		$28,000
SAI Technology 800 447-4373												
Series 5000		M	512x512	Y	Y	VT100			38.4K	Y/*		$28,000+
Series 7000		M	256x512	Y	Y	VT100			38.4K	Y/*		$28,000+
Series 8000		M	576x640		Y	VT100			19.2K	Y/*		$65,000+
Samsung Electron Devices America, Inc. 213 802-8425												
SAMTRON SD-325	14"	M	1024x500	N		VT220/320			57.6K	Y/Y	20	$699

Outperform VT240/241 Graphics Terminals By Trading 4 Old Colors For 16 New Ones.

Presenting a fresh set of enhancements to the leading DEC® VT240/241 terminal emulation software. New SmarTerm® 240 version 3.0 has a range of VT340 ReGIS® graphics features. So when running on a PC with an EGA or VGA, it actually outperforms a dedicated VT240/241 terminal.

Sixteen different colors can be specified from available palettes. Which makes working with 3-D images and complex filled regions in powerful ReGIS color graphics programs as easy as pie charts. Rubber band cursor actions, curves through data points, and text drawn to virtually any size, shape, or angle are also available.



The vivid display of advanced software engineering in version 3.0 goes beyond colorful VT340 features. We've also made version 3.0 faster, easier, and more comfortable to use.

Automatic keyboard remapping has been added. The PC num lock, for example, becomes the DEC PF1 key. Now, no matter which style PC keyboard you use, the best physical representation of the DEC keypad will be at your fingertips.

On-line help has been expanded. Softkey enhancements include conditional branching and faster action. We've even managed to improve the performance of our state-of-the-industry communications and file transfer features.

Some things haven't changed. Installation is still automatic. Our technical support group still provides free solutions to problems and answers to your questions. And our 30-day return policy continues to make a complete on-site evaluation risk-free.

So if you're already a SmarTerm software user, call us today at 608-273-6000 to trade up. And if you're not a SmarTerm user, now's the time to become one.

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GRAPHICS TERMINALS

Model	Monitor Size	Color/ Monochrome	Resolution (dpi)	3-D	Windowing	Terminal Emulation	Displayable Colors	Color Palette	Max Baud Rate (bps)	Serial/Parallel	# of Function Keys	Price
Seiko Instruments 408 922-5950												
GR-4406	19"	C	1280x1024	N	N	VT100	1024	16.8m		Y/-	32	$20,950
GR-4416	19"	C	1280x1024	N	N	VT100	16.8m	16.8m		Y/-	32	$20,950
Spectragraphics Corporation 619 450-0611												
DS1081	19"	C	1024x1024	Y		VT100	16	4096			32	$12,900
DS1082	19"	C	1024x1024	Y		VT100	256	16.8m		Y/-	32	$14,900
DS1082GX	19"	C	1024x1024	Y	Y	VT100	256	16.8m	1.544M	Y/Y	32	$15,500
DS1500	19"	C	1024x1024	Y		VT100	16	4096			32	$22,900
Systerm, Inc. 514 332-5581												
KD1220G		C	512x240			VT100/220	16	64	19.2K	Y/-		
KD220G	14"	M	512x240			VT52/100/220			19.2K	Y/-		$795
KD500G	14"		512x240			VT100			19.2K	Y/-		
Tab Products Company 415 852-2400												
132/15G	15"	M	1024x779			VT52/100						$1,195
Talaris Systems Inc. 619 587-0787												
T7600	14"	M	1024x780	N	Y	VT52/200			57.6K	Y/-	45	$1,995
Tektronix, Inc. 503 627-7111												
4111	19"	C	1024x768	N	Y	VT52/100	16	4096		Y/Y	8	$8,995
4205	13"	C	480x360	N	Y	VT52/100/200	16	64		Y/Y	8	$2,495
4207	13"	C	640x480	N	Y	VT52/100/200	16	64		Y/Y	8	$3,995
4208	13"	C	640x480	N	Y	VT52/100/200	16	64		Y/Y	8	$4,995
4209	19"	C	640x480	N		VT52/100/200	16	4096	38.4K	Y/-		$6,995
4224	16"	C	1024x768	N	Y		256	16.7m	38.4K	Y/Y		$12,950
4225	16"	C	1280x1024	N			256	16.7m	38.4K	Y/Y		$15,950
4235	16"	C	1280x1024	Y			16	16.7m	38.4K	Y/Y		$23,500
4236	16"	C	1280x1024	Y			256	16.7m	38.4K	Y/Y		$33,500
4237	16"	C	1280x1024	Y			4096	16.7m	38.4K	Y/Y		$37,500
SF4208	13"	C	640x480	N	Y	VT52/100/200	16	4096		Y/Y	8	$5,495
Teleray 612 941-3300												
30	13"*	C	640 x 480	N	Y	VT 340	16	262K+	38.4K	Y/Y		$2,690
Transiac Corporation 415 657-7555												
TR1024	15"	M	1024x480			VT100						$3,750
Transtech International Corporation 617 237-7715												
Sinoterm	12"					VT100						$5,600
Trillium Corporation 201 445-9660												
1100		C	640x480									$300K+
Verticom, Inc. 800 433-5760												
CD-1	13"	C	640x480			VT100						$795
VG-07	13"	C	640x480			VT100						$3,495
VG-09	19"	C	640x480			VT100						$5,995
VG Systems, Inc. 818 346-3410												
VG3300	21"	C	4Kx4Kx4K									$40,000
Visual Technology, Inc. 800 847-8252												
603	14"	M	1056x400		Y	VT52/100/220			38.4K	Y/-	15	$695
630	14"	M	1056x800		Y	VT52/100/220			38.4K	Y/-	15	$995
W. W. Gaertner Research, Inc. 203 866-3200												
Inrad II	6-25"	C	1024x1280									$43,500+
Wyse Technology 408 433-1000												
WY-99GT	14"	M	800x338		Y	VT52/100/220			38.4K	Y/-	16	$649

WORKSTATIONS

Model	Monitor Size	Color/ Monochrome	Resolution (bits)	GIN Device Support	Zoom/Pan/3-D	Terminal Emulation	Max Baud Rate (bps)	Color Palette	Local Memory (Bytes)	Serial/Parallel	Segment Support	Price
CalComp, Inc. 714 821-2100												
CGS 4600	15"	C	1280x1024	Y	N/N/Y	VT100		16.7m		Y/Y		$6,995+
Colorgraphic Communications Corporation 404 455-3921												
CEBRA 286	19"	C	640x480	Y	Y/Y/N	VT100/200	38.4K	64		(2)Y/Y		$4,000
Datamedia Corporation 800 DMC-INFO												
386/20-00	14"	C/M	800x480	Y		VT340/241	38.4K	256K	2M	Y/Y		$4,895
386/20-01	14"	C/M	800x480	Y		VT340/241	38.4K	256K	2M	Y/Y		$5,195
386/20-08	14"	C/M	800x480	Y		VT340/241	38.4K	256K	2M	2Y/-		$6,995
COLORSCAN/2	14"	C	640x480	Y		VT240	38.4K	256	768K	(2)Y/Y		$2,000+
Evans & Sutherland 801 582-5847												
PS390	19"	C	8192x6912		N/N/Y	VT100		16.7m	2M	Y/-		$32,950+
PS390A+	19"	C	8192x6912		N/N/Y	VT100		16.7m	2M	Y/-		$34,950+
GE Calma Company 408 434-4000												
DIMENSION III					N/N/Y							$27,000+
Prism/DDM					N/N/Y							$27,000+
Genisco Peripheral Systems 714 220-0720												
HS-30	19"	C	1280x1024	*	N/N/Y	VT100	19.2K	4096	1-16M	(4)Y/Y	Y	
HS-40	19"	C	1280x1024	*	N/N/Y	VT100	19.2K	4096	1-16M	(4)Y/Y	Y	
HS-50	19"	C	1280x1024	*	N/N/Y	VT100	19.2K	16.7m	1-16M	(4)Y/Y	Y	
HS-60	19"	C	1280x1024	*	Y/Y/Y	VT100	19.2K	16.7m	1-16M	(4)Y/Y	Y	
Geo Based Systems, Inc. 919 361-5717												
GWS 3	19"	C	1024x1024									$30,000+
Integrated Solutions, Inc. 408 943-1902												
Advantage 2000	19"	C	1280x1024									
Optimum 13/16	19"	C/M	1280x1024									
Optimum 20/24	19"	C/M	1280x1024									
Optimum 8	19"	C/M	1280x1024									
Intergraph Corporation 205 772-2000												
InterPro 125	15"	C	1184x884	Y		VT220	19.2K	4096	6M		Y	
InterPro 225	19"	C	1184x884	Y		VT220	19.2K	4096	16M		Y	
InterPro 3050	19"	C	1184x884	Y		VT220		16m	16M		Y	
InterPro 3055	19"	C	1184x884	Y		VT220	19.2K	16m	16M		Y	
InterPro 3070	27"	C	1664x1248			VT220	19.2K	16m	16M		Y	
InterPro 340	19"	C	1184x884	Y		VT220	19.2K	16m	8M		Y	
Jupiter Systems 415 523-9000												
Satellite RTOS			1280x1024									
McDonnell Douglas 800 325-1551												
R390	19"	C	4096x3456	*	Y/Y/Y			16.7m				
MIPS Computer Systems, Inc. 408 720-1700												
RS2030	16/19"	C	1280x1024	Y				16.7m+	8M			$19,500+
RS2030	17"	M	1280x1024	Y					8M			$19,500+
Omnicomp Graphics Corporation 713 464-2990												
OMNI 1500 Transportable	15"	C	1280x1024	*	Y/Y/-		19.2K	16.7m	1M	Y/-	Y	$12,950
Pericom Inc. 609 895-0404												
MX7286	15/19"	C	1024x768	Y	Y/Y/N	VT100/220/240	19.2K	256K	256K	Y/-	Y	$3,995+
MX7386	15/19"	C	1024x768	Y	Y/Y/N	VT100/200/240	19.2K	256K	256K	Y/-	Y	$6,850+
SAEC Microsystems 513 793-4959												
386-33	16"	C	1024x768	Y	N/N		9600	Infinite	4M			$8,495

WORKSTATIONS

Model	Monitor Size	Color/ Monochrome	Resolution (bits)	GIN Device Support	Zoom/Pan/3-D	Terminal Emulation	Max Baud Rate (bps)	Color Palette	Local Memory (Bytes)	Serial/Parallel	Segment Support	Price
SAI Technology 800 447-4373												
9000		M	1024x1024		N/N/Y					Y/-		$65,000+
Seiko Instruments 408 922-5950												
GR-4400	19"	C	1280 x 1024		N/N/Y			16.8m				
Silicon Graphics, Inc. 415 960-1980												
Personal IRIS					N/N/Y							$16,000+
Spectragraphics Corporation 619 450-0611												
CS 1080		C						16.8m				
Sun Microsystems, Inc. 415 960-1300												
SPARCstation	19"	C	1152x900	Y	Y/Y/Y	VT100	52K	16.7m	8M		Y	$39,900+
SPARCstation 1GX	16"	C	1152x900	Y	Y/Y/Y	VT100	52K	16.7m	8M		Y	$14,495+
SPARCstation 330GX	19"	C	1152x900	Y	Y/Y/Y	VT100	52K	16.7m	8M		Y	$27,900+
SPARCstation 370GX	19"	C	1152x900	Y	Y/Y/Y	VT100	52K	16.7m	8M		Y	$48,900+
Sun-3/470GX	19"	C	1152x900	Y	Y/Y/Y	VT100	52K	16.7m	8M		Y	$48,900+
Sun-3/470GXP	19"	C	1152x900	Y	Y/Y/Y	VT100	52K	16.7m	8M		Y	$54,900+
Sun-3/80TC	16"	C	1152x900	Y	Y/Y/Y	VT100	52K	16.7m	4M		Y	$15,995+
SUN-3180GX	16"	C	1152x900	Y	Y/Y/Y	VT100	52K	16.7m	4M		Y	$13,995+
Tektronix, Inc. 503 627-7111												
4125	19"	C	1280x1024	*	Y/Y/N	VT51/100	38.4K	16m	288K	Y/-	Y	$16,950
4126	19"	C	1280x1024	Y	Y/Y/Y	VT52/100	38.4K	16m	2M	Y/-	Y	$29,950
4128	19"	C	1280x1024	Y	Y/Y/Y	VT52/100	38.4K	16m	288K	Y/-	Y	$19,950
4129	19"	C	1280x1024	Y	Y/Y/Y	VT52/100	38.4K	16m	288K	Y/-	Y	$29,950
4211	19"	C	1280x768	Y	Y/Y/Y	VT200		16.7m	2.75M	Y/-		
4315	13"	M	640x480	Y	N/N/N				5M	Y/-		$9,995
4316	19"	M	1376x1024	Y	N/N/N				4M	Y/-		$18,950
4317	19"	C	1376x1024	Y	N/N/N			4096	4M	Y/-		$18,950
4324	16"	C	1024x768	Y	Y/Y/N	Tek 4125		16.7m	4M	(2)Y/-	Y	$26,950
4325	16"	C	1280x1024	Y	Y/Y/N	Tek 4125		16.7m	4M	(2)Y/-	Y	$29,950
4335	16"	C	1280x1024	Y	Y/Y/Y	Tek 4125/4128		16.7m	4M	(2)Y/-	Y	$37,500
4336	16"	C	1280x1024	Y	Y/Y/Y	Tek 4125/4128		16.7m	4M	(2)Y/-	Y	$47,500
4337	16"	C	1280x1024	Y	Y/Y/Y	Tek 4125/4128		16.7m	4M	(2)Y/-	Y	$51,500
Virtual Imaging 408 737-3700												
VIEW1000	19"	C/M	2048x2048	Y	N/N/N		19.2K		8M	Y/-		
VIEW2000	19"	C/M	2048x4096	Y	N/N/Y		19.2K		8M	Y/-		
VIEWbox	19"	C/M	2048x2048	Y	N/N/Y		19.2K		4M	Y/-		

X WINDOW TERMINALS

Model	Monitor Size	Color/ Monochrome	Resolution (bits)	Max Baud Rate (bps)	Multisessioning	Terminal Emulation	3-D	Color Palette	Displayable Colors	Serial Port	Parallel Port	Warranty	Price
Acer Counterpoint, Inc. 408 434-0190													
Model 100	14"	M	640x480			VT220	N			Y	Y	90 d	$995
Model 200	14"	M	640x480			VT220	N			Y	Y	90 d	$1,495
Model 200C	15"	C	640x480			VT220	N	16	256	Y	Y	90 d	$1,995
Falco Data Products 800 835-2648													
System 4000X										Y	Y		$8,750
GraphOn Corporation 408 435-8400													
OptimaX 200	14"	M	800x600	57.6K		VT100/220		1	1	Y	N	1 yr	$1,395
Human Designed Systems 800 437-1551													
ViewStation	14"	M/C	1280x1024	10M				256		Y	Y	1 yr	$1,999+
Network Computing Devices 415 694-0650													
NCD 16	16"	M	1024x1024	38.4K			N			Y	N	6 m	$2,500
Northwest Digital Systems 206 524-0014													
GP-220W	14"	M	1024x780	38.4K		VT100/220	N			Y	N	1 yr	$1,695
Peritek Corporation 415 531-6500													
VCK-Q/U	15"	C	1024x1024	38.4K		VT100	Y	256	256	Y	Y	6 m	$6,500
VCK-Q/U	19"	C	1024x1024	38.4K		VT100	Y	16.7m	1m	Y	Y	6 m	$6,500+
Visual Technology, Inc. 800 847-8252													
640-XDS	14"	M	1024x800	38.4K		VT102				Y	N	1 yr	$1,995
790 XDS	19"	M	1024x800	38.4K		VT102				Y	N	1 yr	$2,995

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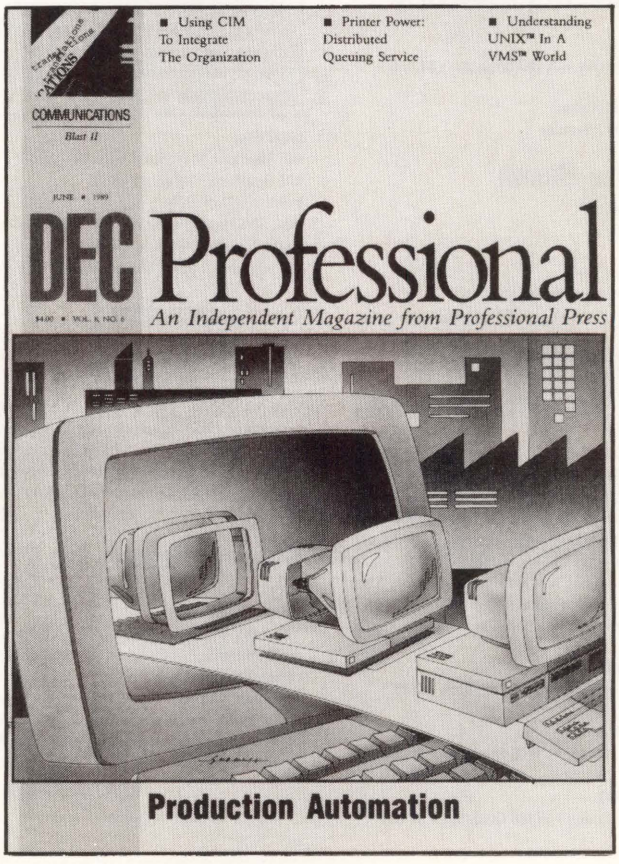
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Display Terminals

Applied Digital Data Systems

■ **ADDS 3220**
14" Monitor • 22 Function Keys • VT52/100/220 Emulation • 19.2Kbps • $595
The ADDS 3220 features a 70Hz refresh rate for reduced eye strain, host and keyboard function keys and a full page set-up mode.

■ **ADDS 3320**
14" Monitor • VT320 Emulation • 19.2Kbps • $595
The ADDS 3320 features a 70Hz refresh rate for reduced eye strain, host and keyboard function keys and a full page set-up mode. Handles 16 international languages.

■ **ADDS 3320 TOUCH**
14" Monitor • VT320 Emulation • 19.2Kbps • $1,595
The ADDS 3320 TOUCH features the same capabilities as the 3320. However, this terminal also features a touch screen which provides on-screen options rather than type-in data, eliminating errors and improving accuracy of data entry.

AT&T Information Systems

■ **4424**
13" Monitor • VT100 Emulation

■ **4425**
12" Monitor • VT100 Emulation

■ **510**
9" Monitor • VT100 Emulation • $1,795

■ **510A**
9" Monitor • VT100 Emulation • $1,645

■ **VideoComm**
VT100 Emulation

Burr-Brown

■ **TM8500**
$1,095

■ **TM8550**
Function Keys • $1,095
The TM8500 and 8550 accept data manually as well as through automatic identification interfaces.

C.Itoh Electronics, Inc.

■ **310**
14" Monitor • 45 Function Keys • VT100/102/220 Emulation • 19.2Kbps • $749
Features two separate set-up menus, two sets of programmable function keys, and two local memories, providing the capability to connect to two different host computers and run simultaneous sessions. There is a modes/session key which acts as a toggle between the two sessions.

■ **7100**
14" Monitor • VT100 Emulation • $645

■ **7800**
14" Monitor • VT100 Emulation • $1,695

■ **7900**
13" Monitor • VT100 Emulation • $1,695

■ **CIT-101XL**
14" Monitor • 16 Function Keys • VT100 Emulation • 38.4Kbps • $699
Row 25 on the display is a user selectable data or terminal status line while the 26th row serves as a function key label line with an editor.

C.Itoh Electronics, Inc.

C.Itoh Electronics, Inc.



■ **CIT-326**
14" Monitor • 45 Function Keys • VT100/102/220 Emulation • 19.2Kbps • $649
The CIT-326 is a DEC compatible dual host/dual session video display terminal. The CIT-326 is really two terminals in one. It has two separate set up menus, two sets of programmable function keys, and two separate local memories. Connections to two different host computers is made possible from the same terminal. This creates a workstation-like environment by providing control over display parameters and access to both hosts and both sessions. Switching between hosts is as simple as pressing the Mode/Session key. In set up, the CIT-326 may be configured to divide the screen horizontally, with dual sessions separated by an informative fact line, or display a full screen of data from either session.

■ **CIT-50+**
14" Monitor • 16 Function Keys • VT52/100/102 Emulation • 38.4Kbps • $649
Features both ANSI and ASCII capabilities. Emulates Wyse WY-50, Lear Siegler ADM 31/3A/5, Hazeltine 1500, and the Televideo 910/920/925 terminals.

Chi Corporation

■ **MP-Series 2**
14" Monitor • 22 Function Keys • VT100/102/220 Emulation • 19.2Kbps • $875
The MP Series 2 is a multiple protocol terminal capable of supporting up to three emulations: DECVT, UNISYS Sperry, and IBM 3270. Multiple communication ports allow simultaneous connection to two different hosts.

Control Module, Inc.

■ **1409**
VT52/100 Emulation
The 1409 is designed for use in industrial environments. It features multiple input capabilities; it accepts input from bar code scanners and has an auxilliary port for input from scales and portable bar code entry terminals. Optional magnetic, hollerith, and voice inputs are also available.

Cybernex Ltd.

■ **RG-220 Turbo**
14" Monitor • 43 Function Keys • VT100/220 Emulation • 38.4Kbps • $795
Features a Cybernex menu that (1) changes the Cybernex key to the NUMERIC LOCK key, (2) removes the HOLD SCREEN, LOCK, COMPOSE, WAIT and NUMERIC LOCK indicators from the status line, (3) appends a carriage return to the function keys, and (4) changes the DELETE key into a BACKSPACE key.

Datastream Networking

■ **8178**
14" Monitor • VT100/220 Emulation • $750

■ **8180**
14" Monitor • VT100/220 Emulation • $1,095

Datawatch Corporation

■ **220**
14" Monitor • VT220 Emulation

Davox Corporation

■ **MultiFunction Workstation**
12" Monitor • VT100 Emulation • $1,295

Delta Data Systems Corp.

■ **DD 100T Tempest**
14" Monitor • 4 Function Keys • VT100 Emulation • 19.2Kbps • $3,700
The DD 100T is Tempest modified.

■ **DD 125T Tempest**
14" Monitor • 4 Function Keys • VT100/125 Emulation • 19.2Kbps • $4,910
The DD 125T is Tempest modified.

■ **DD 220T Tempest**
14" Monitor • 16 Function Keys • VT52/100 Emulation • 38.4Kbps • $2,769
The DD 220T is Tempest compliant.

Direct Service and Repair

■ **831**
12" Monitor • VT52/100 Emulation • $895

■ **VP828**
12" Monitor • VT52 Emulation • $1,395

Electro Mechanical Systems

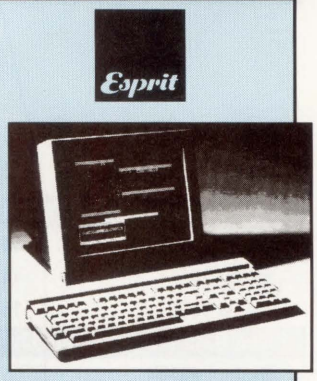
■ **TID**
12" Monitor • VT100 Emulation • 19.2Kbps • $980
This terminal has been classified as the Touch Information Display (TID) terminal and also emulates the Lear Siegler ADM 3A.

Electrohome, Ltd.

■ **EDM 926**
9" Monitor
Offers a cost effective solution to display computer information.

■ **EVM Series**
9" Monitor • $635+
The wide range of features makes the EVM line adaptable to a number of applications. All models available in 120V and 220/240V versions, standard and Vari-scan, and a choice of phosphors.

Esprit Systems, Inc.



■ **Opus 3n1+**
14" Monitor • 16 Function Keys • VT220 Emulation • 38.4Kbps • $599
The OPUS 3n1+ provides the DEC user with the solution to connectivity problems without the need to change terminals. The popular OPUS 3n1+ provides a quality VT220 emulation in a dual port terminal that allows connection to two hosts or ports from a single terminal simultaneously, and "hot keys" between the environments. In addition to the VT220 emulation, the OPUS 3n1+ offers PCterm emulation to support DOS applications and a full set of ASCII protocols. A DEC style keyboard automatically configures the user interface for any of the emulations providing the perfect connectivity solution. In addition, the OPUS 3n1+ provides a full set of terminal resident pop-up functions which includes a memory calculator, a calendar, a clock alarm, an ASCII chart, and a Hayes modem autodial utility. Esprit Express, the free 24-hour next day replacement service, completes the Esprit solution.

■ **Opus 220**
14" Monitor • 18 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $569
The OPUS 220 provides quality VT220 emulation covered by the unique Esprit Express warranty which guarantees a replacement unit by the next day.

Falco Data Products

■ **542**
14" Monitor • 16 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $1,125
The FALCO 542 is designed for the Polling/Addressing terminal market and it features multihost windowing, downloadable character sets, multiple screen sizes, and reconfigurable keyboards.

Fargo Electronics, Inc.

■ **WD-50**
14" Monitor • 16 Function Keys • 38.4Kbps • $1,895
Washdown-rated device engineered for use in harsh industrial environments. Suitable in wet, damp, dusty, or even mildly corrosive environments. Meets NEMA specifications.

Gen Term Corporation

■ **SW10**
VT52/100 Emulation • $649

■ **SW80**
VT52/100 Emulation • $949

GPC Technology Corporation

■ **GPC 1100**
14" Monitor • 16 Function Keys • VT100 Emulation • 19.2Kbps • $2,895
The GPC 1100 was designed for a wide range of severe environments and features a fully sealed terminal enclosure, meeting NEMA 4&4X specifications.

Graphics Development Corporation

■ **ID-200A**
13" Monitor • VT52/100/220 Emulation • 38.4Kbps • $3,295
The ID-200A (Alpha) is a color terminal with an eight color palette and eight displayable colors. It is also available with a 19" screen size.

Harris Corporation

■ **VA 8691**
VT220 Emulation • $995

VG 8691
VT220 Emulation • $1,585

Hewlett-Packard Company

■ **700/22**
14" Monitor • 30 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $575
The 700/22 also features a 72Hz refresh rate.

■ **700/92**
14" Monitor • 8 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $895

■ **700/94**
14" Monitor • 8 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $1,095
The 700/94 terminal also features up to 130 blocks of 256 bytes each, forms cache memory, 11 local edit checks, and modified data tag capabilities.

Honeywell Information Systems

■ **HDS 7403**
14" Monitor • VT52/100/220 Emulation

■ **HDS 7404**
14" Monitor • VT52/100/220 Emulation

Human Designed Systems

■ **HDS 2000**
15" Monitor • 42 Function Keys • VT52/100 Emulation • 19.2Kbps • $995
The HDS 2000 is equipped with flexible networking, providing simultaneous communication with up to three computers. This terminal may be upgraded to the HDS 2000G and GX for graphics capability.

■ **HDS 2010**
15" Monitor • 55 Function Keys • VT220 Emulation • 19.2Kbps • $1,295
The HDS 2010 is an APL terminal with full over-strike and the ability to define APL symbols, and APL legends on keytops.

IBM Corporation

■ **3163**
12" Monitor • VT52/100 Emulation • $1,095

Informer Computer Terminals

■ **203-100**
9" Monitor • 11 Function Keys • VT52/100 Emulation
The 203-100 features 32 special characters.

■ **205-100**
12" Monitor • 11 Function Keys • VT52/100 Emulation
The 203-100 features 32 special characters.

■ **207-100**
9" Monitor • 11 Function Keys • VT52/100 Emulation
This model is a 14 pound portable terminal with a flip down keyboard that features 32 special characters.

■ **207-102**
9" Monitor • 11 Function Keys • VT102 Emulation
Same as the 207-100. In addition, the optional internal modem features MNP Class 5 error correction.

■ **207/220**
9" Monitor • 15 Function Keys • VT/220 Emulation
A portable workstation that provides access to a DEC mainframe.

Kimtron Corporation

■ **KT-220**
14" Monitor • 15 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $599

■ **KT-220 Advanced**
14" Monitor • 15 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $599
This KT-220 Advanced model also supports dual hosts as well as multiple windowing.

■ **KT-220/PC**
14" Monitor • VT52/100/220 Emulation • 38.4Kbps • $599
Same as the KT-220 Advanced. The KT-220/PC also features an 84-key keyboard.

■ **KT-50**
14" Monitor • 40 Function Keys • VT52 Emulation • 19.2Kbps • $349
The KT-50 is equipped with a height adjustment feature that lowers or raises the vertical position of the screen. This model also features a keyboard with an AT style layout.

■ **KT-70**
14" Monitor • Function Keys • VT52/100 Emulation • 19.2Kbps • $599
The KT-70 is available with an optional display memory of four pages.

Lanpar Technologies, Inc.

■ **3220**
$1,025

■ **Vision II-4200**
14" Monitor • 15 Function Keys • VT220 Emulation • 19.2Kbps • $699
The Vision 4200-II features multipage display, mouse support, 96 user programmable functions, and message window capabilities.

■ **Vision II-4200-I**
14" Monitor • 15 Function Keys • VT220 Emulation • 19.2Kbps • $1,995
Same as the Vision II-4200. In addition, this terminal is housed in a steel cabinet for protection in hazardous environments. A 68000-based graphics option is available that emulates either the Tek 4010 or 4014 (800x375) and ReGIS (800x360).

■ **Vision II-4210**
14" Monitor • 15 Function Keys • VT100 Emulation • 19.2Kbps • $799
Same as the Vision II-4200-I. The Vision II-4210 also features Blockmode Data Entry which optimizes communications efficiency and supports data validation.

Lee Data Corporation

■ **1222**
15" Monitor • 24 Function Keys • VT52/100/220 Emulation • 19.2Kbps • $1,995+
The 1222 features a record/playback function, windowing, multiple sessions, 3270 connectivity, and the ability to copy data from session to session.

Liberty Electronics

■ **Freedom 220**
VT52/100/220 Emulation • $745

■ **Freedom 222**
VT52/100/220 Emulation • $945

■ **Freedom ONE ANSI**
14" Monitor • 15 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $499
The Freedom One ANSI terminal emulates the DEC VT220 environment with the exception of downline loadable character sets.

■ **Freedom ONE Plus**
14" Monitor • 15 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $499
The Freedom ONE Plus terminal also emulates the Televideo 950, Viewpoint AZ, Lear Siegler ADM-31, and the Data General Dasher D210 and 211.

■ **Freedom ONE Turbo**
14" Monitor • 15 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $599
The Freedom ONE Turbo features the same capabilities as the Freedom ONE Plus. However, in addition, it also features a PC emulation mode that allows it to be used with multiuser PC systems.

Link Technologies, Inc.

■ **125**
14" Monitor • 32 Function Keys • 38.4Kbps
Features include a bidirectional printing port, a horizontal split screen, and soft set-up capabilities including page or line formats.

■ **220**
14" Monitor • 38 Function Keys • VT100/132/220 Emulation • 38.4Kbps • $595
The 220 is also available with an optional six page memory at $685 and an optional Gold Key word processing keyboard at $645.

■ **220WP**
14" Monitor • VT100/220 Emulation • 38.4Kbps • $649

■ **MC10**
14" Monitor • 40 Function Keys • VT100/220/320 Emulation • 38.4Kbps • $595
Plug-in cartridges are available to support (1) bit-mapped graphics display, (2) a bar code reader, (3) supplemental serial, and (4) parallel communication ports. Field upgradable options are available.

■ **MC2**
14" Monitor • 19.2Kbps • $409
The MC2 features a 78Hz screen refresh rate.

■ **MC3**
14" Monitor • 32 Function Keys • VT100 Emulation • 38.4Kbps • $565
Emulates ASCII, ANSI, and PCTerm and is equipped with three configurable communications ports which allows users to simultaneously display any two emulations on a split screen.

■ **MC5**
14" Monitor • Function Keys • 38.4Kbps
Features include the capability to run two hosts simultaneously, interchangeable keyboards, and a flat screen.

LXE

■ **2020**
Function Keys
Handheld ruggedized, radio frequency terminal designed to provide reliable data communications for such inventory control applications as receiving, picking/putaway, cycle counting and shipping. Operates with a full range of bar code systems.

■ **2020-IS**
Function Keys
Includes same features as the 2020. The 2020-IS may be used safely for inventory control applications in flammable atmospheres found in chemical and petrochemical industries.

■ **2020-LT**
Function Keys
Includes same features as the 2020. The 2020-LT provides reliable operation in low temperature (down to -22 degrees F) applications such as refrigerated warehouses or cold outdoor climates. Includes a tactile keypad.

■ **2020-T**
Function Keys
Includes same features as the 2020. The 2020-T also features a tactile keypad where one touch in a 360 degree radius on any key will register a keystroke.

Micro-Term Inc.

■ **4520**
14" Monitor • 15 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $695
All Micro-Term's 45xx terminals feature a 90 day warranty period for on-site TRW support. Features a high speed multihost and multisession which allows the terminal to function as two separate terminals, at different baud rates, with separate communication protocols, and independent emulations.

■ **4525**
14" Monitor • 15 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $695
Same as the 4520. The 4525 also features seven pages of scrollable memory and copier support for DEC LA50/100, C.Itoh and Epson printers. Graphics enhancement boards available.

■ **5510**
14" Monitor • Function Keys • VT100/220/320 Emulation • 19.2Kbps • $499
The 420 features a programmable compose key.

Nematron Corporation

■ **IWS-1000**
12" Monitor • 65 Function Keys • VT52/100 Emulation • 19.2Kbps • $2,190
A NEMA 4/12 sealed industrial device designed for harsh environments that mounts in panels or 19" racks.

■ **IWS-1000T**
12" Monitor • 65 Function Keys • VT52/100 Emulation • 19.2Kbps • $2,300
A NEMA 4/12 sealed industrial device featuring OptiTOUCH, a touch-screen keyboard that provides 40 user programmable touch-sensitive zones for transmitting ASCII characters or messages.

■ **IWS-1510**
12" Monitor • 65 Function Keys • VT52/100 Emulation • 19.2Kbps • $3,390
The IWS-1510 is an IWS-1000 Series industrial device featuring eight foreground and eight background colors.

■ **IWS-1511T**
12" Monitor • VT52/100 Emulation • 19.2Kbps • $3,500
Capable of producing eight foreground and background colors. Features an OptiTOUCH keyboard, providing 60 user programmable touch-sensitive zones for transmitting ASCII character and/or messages.

■ **IWS-2000**
12" Monitor • 65 Function Keys • VT52/100 Emulation • 19.4Kbps • $3,340
Color device equipped with OptiBASIC which is a high-level BASIC language that makes programming and control easy and flexible.

■ **IWS-2000T**
12" Monitor • 65 Function Keys • VT52/100 Emulation • 19.4Kbps • $3,450
Same as the IWS-2000. Also features the OptiTOUCH keyboard.

■ **IWS-2510**
12" Monitor • 65 Function Keys • VT52/100 Emulation • $4,390
Color device equipped with OptiBASIC which is a high-level BASIC language that makes programming and control easy and flexible.

■ **IWS-2511T**
12" Monitor • 40 Function Keys • VT52/100 Emulation • 19.4Kbps • $4,500
Same as the IWS-2000. The IWS-2511T is also capable of producing eight foreground and eight background colors.

■ **IWS-3005**
8" Monitor • VT100 Emulation • 19.2Kbps • $1,090
Mini workstation designed for applications requiring multiline displays that are capable of embedding dynamic data that may be placed on the screen without relying on the host to transmit screen cursor locations.

■ **IWS-3005T**
8" Monitor • 40 Function Keys • VT100 Emulation • 19.2Kbps • $1,440
Same as the IWS-3005T. Also includes the OptiTOUCH touch-screen keyboard.

Networx Data Products Co.

■ **Ditto 221XL**
14" Monitor • 15 Function Keys • VT100/102/220 Emulation • 19.2Kbps • $499
The Ditto 221XL may be upgraded with a graphics and text expansion board (221GXL) for $499.00.

■ **Ditto 320XL**
14" Monitor • 15 Function Keys • VT100/220/320 Emulation • 19.2Kbps
Available with six optional pages of memory and a graphics upgrade to provide graphs, charts, plots and drawing capabilities.

Northern Telecom, Inc.

■ **Displayphone220**
9" Monitor • 32 Function Keys • VT52/100/220 Emulation • 19.2Kbps • $895
The Displayphone 220 features a two-line telephone system, with a simultaneous voice-and-data function, which provides the ability to enter or access information while talking on the phone. This device is also available with an internal Hayes 212A compatible modem, priced at $1,095. The maximum baud rate with the internal modem is 1200bps.

Perfect Terminals, Inc.

■ **P411**
14" Monitor • VT100 Emulation • $795

Plexus Computers, Inc.

■ **6110A**
14" Monitor • VT100 Emulation

Qume Corporation

■ **QVT 201**
14" Monitor • 17 Function Keys • VT100 Emulation • 38.4Kbps • $695
The keyboard adjusts to three different height levels.

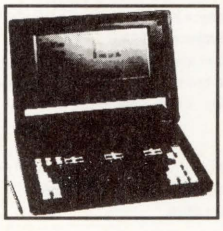
■ **QVT 203+**
14" Monitor • 15 Function Keys • VT52/100/220 Emulation • 38.4Kbps • $645
The 203+ features a highly responsive, capacitive keyboard, with an adjustable tilt.

■ **QVT103**
14" Monitor • 12 Function Keys • VT52/100/131 Emulation • 19.2Kbps • $895

■ **QVT202**
14" Monitor • 17 Function Keys • VT220 Emulation • 19.2Kbps • $595

Random Corporation

Random™ CORPORATION



■ **Colleague**
10" Monitor • 20 Function Keys • VT52/100/220 Emulation • 19.2Kbps • $995
Laptop, battery powered terminal (weighs 7.5 pounds) is equipped with 20 auto connect channels. Features an internal 300/1200bps auto answer/auto dial modem with CCITT V.21/.22 compatibility and MNP Class 5 error correcting protocol. Other features include left and right windowing as well as data backup and restore capabilities. VT-style numeric/application keypads and other accessories are also available.

■ **Colleague Plus**
10" Monitor • 20 Function Keys • VT52/100/220 Emulation • 19.2Kbps • $1,295
Offers the same features as the Colleague. Also equipped with an internal/offline word processor including (1) data capture and send, (2) session record and playback, (3) screen-snap, and (4) menu driven editor features.

RCA Business Services

■ **Interactive Display**
14" Monitor • VT100 Emulation

Samsung Electron Devices America, Inc.

■ **SAMTRON SD-220**
14" Monitor • 20 Function Keys • VT100/220 Emulation • 19.2Kbps • $499

■ **SAMTRON SD-50**
14" Monitor • 14 Function Keys • 19.2Kbps • $399

Summus Computer Systems

■ **SUM 326**
14" Monitor • 45 Function Keys • VT320 Emulation • 38.4Kbps • $695

Tatung Company of America

■ **TVT7220**
VT220 Emulation • $549

Teco American

■ **VA120**
12" Monitor • VT100 Emulation

■ **VA220**
14" Monitor • VT100/220 Emulation

Telefile Computer Products

■ **T3510**
14" Monitor • VT100 Emulation

Teleray

■ **20-DDG**
14" Monitor • 20 Function Keys • VT220 Emulation • 19.2Kbps • $895
Features two bidirectional communication ports, a recodable keyboard, as well as horizontal scrolling to 256 columns. Also capable of displaying 40 and 66 data columns.

■ **20-DHP**
14" Monitor • 32 Function Keys • VT100/220 Emulation • 19.2Kbps • $895
Features two bidirectional communication ports, a recodable keyboard, as well as horizontal scrolling to 256 columns. Also capable of displaying 40 and 66 data columns.

■ **TEL 2**
14" Monitor • 32 Function Keys • VT102 Emulation • 19.2Kbps • $800
The TEL 2 features two bidirectional communication ports and a recodable keyboard.

■ **TEL 5**
14" Monitor • 32 Function Keys • VT100 Emulation • 19.2Kbps • $900
The TEL 5 features two bidirectional communication ports and a recodable keyboard.

■ **TEL 7**
14" Monitor • 32 Function Keys • VT52/102 Emulation • 19.2Kbps • $1,100
Same as the TEL 5. In addition, the TEL 7 features both synchronous and asynchronous protocol.

TeleVideo Systems, Inc.

■ **9220**
14" Monitor • 30 Function Keys • VT52/100/220 Emulation • 19.2Kbps • $619
The 9220 is available with the DEC special graphics character set.

■ **965**
14" Monitor • 32 Function Keys • VT100 Emulation • 38.4Kbps • $599
The 965 features ASCII, ANSI, and PC operating modes, as well as an interactive on-screen calculator. The computations may be transferred directly to a spreadsheet or any other application, without exiting the program.

Texas Instruments, Inc.

■ **TravelMate 1200**
11" Monitor • 4 Function Keys • VT100 Emulation • 1200 bps • $1,295
The TravelMate 1200 features a liquid crystal display, a nonimpact thermal printer, microprocessors, a keyboard, and an internal 300/1200bps modem that is Bell 212A compatible. It was designed for portable applications.

■ **TravelMate LT220**
11" Monitor • 10 Function Keys • VT220 Emulation • 9600 bps • $899
Features a Supertwist liquid crystal display, ink-jet or thermal printers, and an internal 300, 1200, or 2400bps modem. Weighing less than five pounds, it is ideal for portable applications.

Thomas Engineering Company

■ **TE 780X**
14" Monitor • VT100 Emulation • $1,350

Trendcom, Inc.

■ **1923**
9" Monitor • VT52/100 Emulation • $1,795

■ **1924**
9" Monitor • VT52/100 Emulation

■ **1925**
9" Monitor • VT52/100 Emulation

Tristar Technology

■ **VEGA VDT-300**
14" Monitor • Function Keys • VT100/220 Emulation • 38.4Kbps • $385
The VEGA VDT-300 is available with a Tektronix 4010/4014 hardware graphics controller option at an additional cost of $220.

UNISYS CORPORATION

■ **SVT1210**
VT52/100 Emulation • $695

■ **SVT1220**
VT52/100/200 Emulation • $995

■ **UVT1224**
14" Monitor • VT52/100/220 Emulation • $695
The UVT1224 is also available with a data entry keyboard for $795.

VISENTECH SYSTEMS, INC.

■ **VS-230PC**
14" Monitor • 45 Function Keys • VT220 Emulation • 38.4Kbps • $565
The VS-230PC multiprotocol terminal incorporates DEC VT220, TeleVideo 925, Xenix and IBM PC mode emulations. Flexibility and low cost make the VS-230PC an excellent choice.

■ **VS220**
12" Monitor • 36 Function Keys • VT52/100/220 Emulation • 19.2Kbps • $399
The VS220 is a reliable alternative with perfect emulation at a low cost.

■ **VS230**
14" Monitor • 45 Function Keys • VT100/131/220 Emulation • 38.4Kbps • $495
Optional word processing keyboard, four pages of memory, and Tek 4010/4014 graphics board are available. Also provides both serial and parallel printer port.

■ **VS230E**
14" Monitor • 45 Function Keys • VT220/330/320 Emulation • 38.4Kbps • $549
Optional word processing keyboard, RS423 and 20mA interface and Tek 4010/4014 REGIS graphics boards are available. Dual host and concurrent windowing is implemented.

VOLKER-CRAIG LTD.

■ **VC 6220**
14" Monitor • 20 Function Keys • VT220 Emulation • 38.4Kbps • $695
Features on-screen labels mapped to oversized function keys and built-in VT131 emulation to provide block, page, partial page, or line transmission modes.

WICAT SYSTEMS

■ **T7100**
14" Monitor • VT100/132 Emulation

WYSE TECHNOLOGY

■ **WY-60**
14" Monitor • 16 Function Keys • VT52/100 Emulation • 19.2Kbps • $599
The WY-60 also emulates the following terminals: ADDS Viewpoint A2/60, Data General D200/210 Lear Siegler ADM 31/3A/5, Data General D200, Hazeltine 1500, and the Televideo 910+/925/950/955.

■ **WY-85**
14" Monitor • 15 Function Keys • VT52/100/220 Emulation • 19.2Kbps • $499

XYCOM, INC.

■ **4810E**
9" Monitor • 6 Function Keys • VT100/220 Emulation • 19.2Kbps • $1,550
The 4810E is designed for use in harsh industrial environments and features a 19" rack- or panel-mounted configuration with a sealed membrane keypad. The front panel is sealed to NEMA 4/12 (waterproof/dustproof) specifications.

■ **4810ER**
9" Monitor • 4 Function Keys • VT100/220 Emulation • 19.2Kbps • $1,500
The 4810ER is designed for use in harsh industrial environments and features a 19" rack-mounted, sealed membrane keypad.

■ **4850A**
12" Monitor • 16 Function Keys • VT100/220 Emulation • 19.2Kbps • $2,700
Designed for use in harsh industrial environments and features a 19" rack-mounted, sealed membrane keypad.

■ **4860A**
12" Monitor • 16 Function Keys • VT100/220 Emulation • 19.2Kbps • $1,750
Designed for use in harsh industrial environments and features a 19" rack-mounted, sealed membrane keypad.

■ **4870**
9" Monitor • 6 Function Keys • VT100/220 Emulation • 19.2Kbps • $2,950
Designed for use in harsh industrial environments and features a 19" rack-mounted, sealed membrane keypad. In addition, the 4870 uses an electroluminescent flat-panel display.

ZENITH DATA SYSTEMS

■ **Z39**
12" Monitor • VT52/100 Emulation • $599

■ **Z49**
14" Monitor • VT52/100 Emulation • $799

■ **ZTX-11**
VT52 Emulation • $399

GRAPHICS TERMINALS

ADVANCED ELECTRONICS DESIGN, INC. (AED)

■ **1024**
19" Monitor • Color • 1024x767dpi • VT100* Emulation • 19.2Kbps • $13,295

■ **1280**
19" Monitor • Color • 1280x1024dpi • VT100* Emulation • 56Kbps

■ **512**
19" Monitor • Color • 512x483dpi • VT100* Emulation • 19.2Kbps • $9,045
The 1024, 1280, and 512 feature 8-bit microprocessors, 26KB of RAM/ROM, and zoom and pan capabilities. Optional DMA interfaces are also available.

■ **767**
19" Monitor • Color • 767x575dpi • VT100* Emulation • 19.2Kbps • $11,095
The 767 features an 8-bit microprocessor, 10KB RAM and 32KBROM and zoom and pan capabilities. An optional DMA interface is also available.

ALLIANT COMPUTER SYSTEMS COMPANY

■ **Model One/85S**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps • 12 Function Keys • $21,500
Used for the manipulation of interactive displays and seismic data. Combination of high level software and embedded firmware. Includes host resident FORTRAN libraries.

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San Diego, CA 92117, (619) 581-6303

■ **One/385**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps
The One/385 is a 3-D graphics system with 40MFLOPS of dedicated processing power for display list transversal, 3-D coordinate transformations and clipping, local light modeling, Gouraud shading, and hidden surface removal.

■ **One/85S**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps • $18,500
Ideal for 2-D imaging and graphics applications. Supports congfiguration options including double buffering, multiple headed independent displays, and 8-bit pre-emptive graphics overlays.

Aristo Graphic Corporation

■ **Signus**
M • 1024x780dpi • VT100 Emulation • $50,000+

Aydin Controls

■ **4100/EGS**
19" Monitor • Color • 640x350dpi • 19.2Kbps • 48 Function Keys • $4,995
The 4100/EGS is equipped with an EGA compatible circuitry employing a VLSI chip with full IBM compatibility and an AGA (Advanced Graphics Adapter) employing an 8MHz advanced CRT controller with video memory.

■ **5215**
13" Monitor • Color • 560x336dpi • 38.4Kbps • 90 Function Keys • $17,000
Supports a trackball, a lightpen, a joystick and a touch panel. Features a dual cursor mux, and backlighting. Options include a keyboard switch as well as rackmount, metal, or plastic monitor options.

■ **5217**
13" Monitor • Color • 560x336dpi • 38.4Kbps • 45 Function Keys • $2,995
The 5217 supports a trackball, and a lightpen and is available in a rackmount version or as a desktop monitor.

■ **5319**
19" Monitor • Color • 560x336dpi • 38.4Kbps • 48 Function Keys • $2,825
The 5319 supports a trackball, a lightpen and a touch panel and is available in a rackmount version or in a metal case.

Bell & Howell Company

■ **IDT 1000**
15" Monitor • VT100 Emulation • $9,000

■ **IDT 1100**
17" Monitor • VT100 Emulation • $9,000

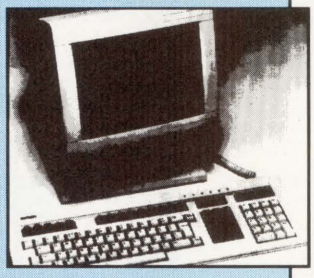
■ **IDT 2000**
19" Monitor • VT100 Emulation • $9,000

C.Itoh Electronics, Inc.

■ **CIT-344**
15" Monitor • Color • 300x500dpi • VT220/340 Emulation • 38.4Kbps • 45 Function Keys • $2,895
Features high speed performance with a 38.4K baud rate, and standard or optional Ethernet (TCP/IP and LAT) interfaces. A standard Apple Desktop Bus Interface supports ADB peripherals.

C.Itoh Electronics, Inc.

C.ITOH
C.Itoh Electronics, Inc.



■ **CIT-328**
14" Monitor • Monochrome • 1024x384dpi • VT320 Emulation • 38.4Kbps • 45 Function Keys • $699
The CIT-328 is a DEC compatible monochrome graphics terminal that is capable of merging both text and graphics. Graphically, the CIT-328's Tektronix emulation supports Alpha Incremental Plot, graph mode and graphics input mode (GIM). It has 45 programmable function key combinations which allow the user to personalize keyboards to specific environments. The 14" monitor utilizes new flat screen technology with a vertical refresh which is user selectable at either 60 or 71Hz. This offers a more flicker-free display. The CIT-328 provides up to four pages of 24 or 25 line text memory. It also supports VT131 block local editing mode which allows data to be edited off line, similar to point-of-sale computers.

C.Itoh Electronics, Inc.

C.ITOH
C.Itoh Electronics, Inc.



■ **CIT-334/344**
14" Monitor • Monochrome • 800x500dpi • VT330/340 Emulation • 38.4Kbps • 45 Function Keys • $1,895
The CIT-334 monochrome and the CIT-344 color graphics terminals provide full emulation of DEC VT330 and VT340. Text, ReGIS, SIXEL and Tektronix 4010/4014 graphics from two different computers may be displayed simultaneously allowing users to switch between computers with a single keystroke. The CIT-334 uses a high resolution 14" flat screen, which is available in soft white, amber, or green. It displays up to four shades of gray from a palette of 64. The CIT-344 adds the ability to display 16 colors on a 15" flat screen. Colors may be chosen from a palette of 262,144. Both terminals store up to six pages of text and two pages of graphics.

Cermetek Microelectronics

■ **CT 100**
9" Monitor • VT100 Emulation

Chromatics

■ **CX2000 BAJA**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps • 20 Function Keys • $27,283
Ruggedized terminal that utilizes industry standards such as VMEbus with a DR11-W interface and supports C and FORTRAN, VMS and UNIX operating systems and a GKS level 2C library.

■ **CX2000 LeMANS**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps • 20 Function Keys • $21,443
The CX2000 LeMANS offers the same features as the CX2000 BAJA. Performance levels include 1,000,000 vectors per second and a 150 microsecond full screen erase.

■ **CXII 2-D**
1536x1152dpi • $39,995
The CX11 2-D includes 4MB of display list memory, text overlay features, GKS firmware, and microcode.

■ **CXII 3-D**
1536x1152dpi • $39,995
The CX11 3-D includes 2MB of display list memory, text overlay features, CX3D microcode and firmware, and a shading processor.

Codonics Inc.

■ **1575**
14" Monitor • Monochrome • 1024x800dpi • VT52/100 Emulation • 38.4Kbps • 32 Function Keys • $1,895
The 1575 features graphics functions including zoom, pan, and erase display. This terminal also supports digitizer tablets, mice, light pens and hard copy units.

■ **4096**
19" Monitor • Monochrome • 16Kx12Kdpi • VT100/220/320 Emulation • $3,495
Features graphics functions including zoom, pan, and erase display. Standard features include a mouse and a 256KB vector display list memory with additional 500KB or 1MB upgrades as options.

Colorgraphic Communications Corporation

■ **480/820**
13" Monitor • Color • 160x240dpi • VT52/100 Emulation • 38.4Kbps • 24 Function Keys • $2,600
This terminal also emulates the Intecolor 8001G/8810. Standard features include internal graphics primitives and animation and process control character sets. Offers optional support for GIN devices such as a light pen and a joy stick, as well as a customer specified character set.

■ **480XL/820XL**
13" Monitor • Color • 640x480dpi • VT52/100 Emulation • 38.4Kbps • 24 Function Keys • $4,000
Same as the 480/820. This graphics terminal displays 16 colors and is equipped with superimposed displays. Features dithering, extensive internal graphics primitives, four pages of 1024x512x4 bit-mapped display memory, and ANSI text compatibility in 24 or 48 lines.

■ **489/829**
19" Monitor • Color • 240x160dpi • VT52/100 Emulation • 38.4Kbps • 24 Function Keys • $3,000
This terminal also emulates the Intecolor 8001G/8810. Standard features include internal graphics primitives and animation and process control character sets. Offers optional support for GIN devices such as a light pen and a joy stick, as well as a customer specified character set.

■ **489XL/829XL**
19" Monitor • Color • 640x480dpi • VT52/100 Emulation • 38.4Kbps • 24 Function Keys • $4,400
Same as the 480/820. This graphics terminal displays 16 colors and is equipped with superimposed displays. Features dithering, extensive internal graphics primitives, four pages of 1024x512x4 bit-mapped display memory, and ANSI text compatibility in 24 or 48 lines.

■ **CEBRA 286**
19" Monitor • Color • 640x480dpi • VT52 Emulation • 38.4Kbps • 24 Function Keys • $4,000
The CEBRA 286 is an integrated high performance industrialized PC/AT computer that uses industry standard PC hardware and software. It may be used as a standalone terminal or as a remote information display with local processing capabilities. The CEBRA 286 may be customized to meet specific requirements.

■ **XL-13K**
13" Monitor • Color • 640x480dpi • VT52 Emulation • 38.4Kbps • 24 Function Keys • $3,000

■ **XL-19K**
19" Monitor • Color • 640x480dpi • VT52 Emulation • 38.4Kbps • 24 Function Keys • $3,400
The XL-13K and -19K are bit-mapped graphics terminals that display 16 colors with dithering and are equipped with 2048 ROM based character memory as well as a bit-mapped graphic generator with ANSI text mode.

Computer Design & Applications, Inc.

■ **MaxDelta**
13" Monitor • Color • 512x480dpi • $150,000

Cybernex Ltd.

■ **GR1014**
14" Monitor • Monochrome • 1024x780dpi • VT52/100 Emulation • $1,795

■ **MAX 331**
14" Monitor • Monochrome • 800x500dpi • VT330 Emulation • 19.2Kbps • $1,395
This is a single session VT330 compatible terminal with full VT330 ReGIS, SIXEL and Tektronix graphics. Setup in English, French or German.

Daisy Data, Inc.

■ **3354**
14" Monitor • Color • 640x300dpi • VT131 Emulation • 19.2Kbps • $5,350
The 3354 is NEMA 4X rated. It is hermetically sealed against dust, condensing mois-

ture, solvents, and corrosive substances. It also features a tactile feedback membrane keyboard, a color default mode, and compatibility with all VAX computers.

■ **3364**
14" Monitor • Color • 640x300dpi • VT131 Emulation • 19.2Kbps • $7,995
Factory mutual systems approved for Class I and II, Division 1 and 2 explosive environments. Features an intrinsically safe membrane keyboard, color default mode and compatibility with all VAX computers.

Davox Corporation

■ **1900**
12" Monitor • VT52/100 Emulation • $1,895

■ **4900**
12" Monitor • VT100/220 Emulation • $2,695

■ **5900**
12" Monitor • VT100/220 Emulation • $2,995

Digital Electronics Corporation

■ **ST 3220**
M • 640x640dpi • VT100 Emulation • 38.4Kbps • $4,950
Features a sealed infared touch input system that provides 2000 touch point character resolution. Supports RS485 interfaces that use a modified token pass networking protocol.

Eastmark, Inc.

■ **GTR01**
14" Monitor • Monochrome • 1024x768dpi • VT220 Emulation • $1,795+
The GTR01 also provides fast and exact emulation of Tek 4010/4014 graphics terminals. Dual windows of 75 pages of off-screen memory controls dual tasks.

Electrohome, Ltd.

■ **ECM 1200**
12" Monitor • Color • $2,179
CGA, EGA, PGA, VGA compatible. High resolution RGB monitor compatible with CAD/CAM and other graphics signals generated from different computer signals and add on boards. Equipped with a metal shield.

■ **ECM 1300**
13" Monitor • Color • $1,198
CGA, EGA, PGA, VGA compatible. High resolution RGB monitor compatible with CAD/CAM and other graphics signals generated from different computer signals and add on boards.

■ **ECM 1900 Series**
19" Monitor • Color • 1024x512dpi • $2,695
CGA, EGA, PGA, VGA compatible. Ideally suited for larger images generated for CAD/CAM and other graphics applications where a larger viewing image is desirable.

■ **ECM 1901**
19" Monitor • Color • $2,160
CGA compatible. Suitable for CAD/CAM graphics applications where a specific frequency range is required.

■ **ECP 2000**
5-14" Monitor • Color • 1280x1024dpi • VT241 Emulation • $11,995
Single lens data/graphics and video color projection system. It connects to computer terminals, PCs, and video sources (up to 35KHz) to project a crisp, bright image on flat, curved, or rear screens.

■ **ECP 3000**
5-25" Monitor • Color • 1280x1024dpi • VT241 Emulation • $14,995
Three lens data/graphics and video color projection system. It connects to computer terminals, PCs, and video sources (up to 50KHz). A microprocessor controls all the functions of the projector via infared remote control including full zone digital convergence.

■ **ECP 4000**
C • 1280x1024dpi • $22,995
Single and three lens data/graphics and video color projection system that connects to computer terminals, PCs, and video sources (up to 50KHz). A microprocessor controls all the functions of the projector via infared remote control including full zone digital convergence.

■ **ECP Graphics**
5-14" Monitor • Color • 1280x1024dpi • VT241 Emulation • $21,995
Single lens data/graphics and video color projection system that connects to computer terminals, PCs and video sources including CAD/CAM workstations up to 80KHz. Projects a crisp image on flat, curved, or rear screens.

■ **EDP 58XL**
4-10" Monitor • Monochrome • VT100/220/240 Emulation • $3,195
The EDP-58XL is a large screen data/graphics projection system. It connects to computer terminals and PCs to project large images on flat, curved, or rear screens.

Encore Computer Corporation

■ **110**
19" Monitor • Monochrome • 1056x864dpi • VT100 Emulation • $3,995

Falco Data Products

■ **5000**
14" Monitor • Monochrome • 1120x400dpi • VT100/220 Emulation • 38.4Kbps • Function Keys • $795
The 5000 also emulates the following products: Wyse WY-50, Televideo 955, Data General 200, IBM 3101, ADDS Viewpoint, and Hazeltine 1500. This terminal is especially useful in an environment where the hosts are of different operating systems.

■ **500e**
14" Monitor • Monochrome • 560x400dpi • VT100/220 Emulation • 38.4Kbps • Function Keys • $645
The 500e also emulates the Wyse WY-50 and the Televideo 955. This terminal is available with six virtual terminal windows which provide easy operation of multihost and -tasking applications. It also features seven pages of text memory, 4,000 characters of non-volatile memory, and is available with pop-up desk accessories.

■ **5220e**
14" Monitor • Monochrome • 560x400dpi • VT100/220 Emulation • 38.4Kbps • Function Keys • $595

■ **5600**
14" Monitor • Monochrome • 560x400dpi • VT100 Emulation • 38.4Kbps • Function Keys • $595
The 5220e and 5600 feature a unique combination of bidirectional serial ports, virtual terminal windows, and firmware which allows both multihost and multitasking operations.

GE Calma Company

■ **G100**
19" Monitor • Color • 1280x1024dpi • 19.2Kbps • Function Keys

■ **G100**
19" Monitor • Color • 1280x1024dpi • 19.2Kbps • Function Keys

■ **Project Review**
19" Monitor • Color • 1280x1024dpi • 19.2Kbps • Function Keys
The G100 models and the Project Review are based on the VME architecture with ten slots that interface to VAX CPUs. Include an 11"x11" digitizing surface with an electronic pen and a separate graphics monitor. Equipped with 4MB of local memory which may be expanded to an optional 16MB. It is used primarily for CAE, CAD, and CAM applications and may be upgraded to the G700.

Genisco Peripheral Systems

■ **1200**
19" Monitor • Monochrome • 1024x792dpi • VT100 Emulation • $10,790

■ **2200**
19" Monitor • Color • 1024x792dpi • VT100 Emulation • $9,950

Graphics Development Corporation

■ **1024**
14" Monitor • Color • 1024x780dpi • VT52/100/220 Emulation • $4,995+

■ **GAMMA**
14" Monitor • Color • 640x480dpi • VT52/100/220 Emulation • 38.4Kbps • $1200
The GAMMA is a graphics controller and options include a VT220 keyboard (KB-220) at $300, a choice of two 14" monitors (MPA14-1, MPA14-2) at $850, or a 19" monitor (MPA19) at $2500.

■ **ID-1024**
13" Monitor • Color • 1024x780dpi • VT52/100/220 Emulation • 38.4Kbps • $4,995

■ **ID-1024**
19" Monitor • Color • 1024x780dpi • VT52/100/220 Emulation • 38.4Kbps • $6,995
The ID-1024 terminals also emulate the Tek 4207.

■ **ID-200**
13" Monitor • Color • 1280x480dpi • VT52/100/220 Emulation • 38.4Kbps • $4,295

GraphOn Corporation

■ **GO-405**
14" Monitor • Color • 800x500dpi • VT220/340 Emulation • 57.6Kbps • 45 Function Keys • $2,995
The screen resolution is 640x480dpi and 800x500dpi when emulating Tektronix or ReGIS, respectively. An additional 1MB of memory is an available option.

■ **GO-407**
14" Monitor • Color • 640x480dpi • VT220/340 Emulation • 57.6Kbps • 45 Function Keys • $3,795
The screen resolution is 640x480dpi and 800x480dpi when emulating Tektronix or ReGIS, respectively. An additional 1MB of memory is an available option.

■ **GO-407 HR**
14" Monitor • Color • 1024x768dpi • VT220/340 Emulation • 57.6Kbps • 45 Function Keys • $5,995
The screen resolution is 1024x768dpi and 800x480dpi when emulating a Tektronix 4207 or VT340, respectively. An additional 1MB of memory is an available option.

■ **GO-225**
14" Monitor • Monochrome • 1024x390dpi • VT52/100/220 Emulation • 19.2Kbps • 45 Function Keys • $795
The GO-225 is equipped with a 68000 microprocessor. It is also available with upgradable zoom and pan capabilities and ReGIS emulation.

■ **GO-230**
14" Monitor • Monochrome • 1024x390dpi • VT52/100/220 Emulation • 19.2Kbps • 45 Function Keys • $1,295
Equipped with a 68000 microprocessor. Also available with optional zoom and pan features and ReGIS emulation. Keycaps supporting MASS-11 and WPS Plus software applications are available for all GraphOn graphics terminals to provide editing commands on the front surface of the keys.

■ **GO-235**
14" Monitor • Monochrome • 1024x780dpi • VT52/100/220 Emulation • 57.6Kbps • 45 Function Keys • $1,695
The GO-235 is 68000 microprocessor based and is available with ReGIS and zoom and pan options.

■ **GO-240**
14" Monitor • Monochrome • 1024x390dpi • VT52/100/220 Emulation • 19.2Kbps • 45 Function Keys • $1,895
The GO-240 is equipped with a 68000 microprocessor. It is also available with standard zoom and pan features, as well as ReGIS emulation. This device also supports a mouse interface and raster operators.

■ **GO-250**
14" Monitor • Monochrome • 1024x780dpi • VT220/240 Emulation • 57.6Kbps • 45 Function Keys • $2,495
Features ReGIS support, pan and zoom capabilities, and raster operations. X Window System support is an available option.

Hewlett-Packard Company

■ **2393A**
12" Monitor • Monochrome • VT52/100 Emulation • 19.2Kbps • 12 Function Keys • $2,295

■ **2397A**
12" Monitor • Color • VT52/100 Emulation • 19.2Kbps • 12 Function Keys • $3,595
The 2393A and 2397A terminals support the following HP-HIL GIN devices: a mouse, a touchscreen, a tablet, and a bar code reader.

Human Designed Systems

■ **HDS 2000G**
15" Monitor • Monochrome • 1024x390dpi • VT52/100/220 Emulation • 19.2Kbps • 55 Function Keys • $1,295

■ **HDS 2000GX**
15" Monitor • Monochrome • 1056x800dpi • VT52/100 Emulation • 19.2Kbps • 42 Function Keys • $1,595
The HDS 2000G and GX are capable of generating line types, fill patterns, and primitives, and an optional mouse or digitizer may be added for additional graphics input.

■ **HDS 2010G**
15" Monitor • Monochrome • 1056x400dpi • VT52/100 Emulation • 19.2Kbps • 55 Function Keys • $1,595
The HDS 2010G is an APL text and graphics terminal featuring networking and windowing capabilities.

■ **HDS 2010GX**
15" Monitor • Monochrome • 1056x800dpi • VT52/100 Emulation • 19.2Kbps • 55 Function Keys • $1,895
The HDS 2010GX is an APL text and graphics terminal with high resolution graphics, featuring networking and windowing capabilities.

■ **HDS 3200-10**
15" Monitor • Monochrome • 1056x400dpi • VT220/320/330 Emulation • 38.4Kbps • 21 Function Keys • $699
Features include seven full screen menus in the set-up mode, a calculator, a display (24 lines by 80 or 132 columns) mode, and a GIN device mode to support a digitizer or an optional HDS mouse.

■ **HDS 3200-35**
15" Monitor • Monochrome • 1056x800dpi • VT220/320/330 Emulation • 38.4Kbps • 21 Function Keys • $1,299
Same as the HDS3200-25. Also includes true zoom and pan, up to 512KB of local storage, graphics windows for multiple graph display, and a print buffer.

■ **HDS 3220-25**
15" Monitor • Monochrome • 1056x800dpi • VT100/220/330 Emulation • 21 Function Keys • $1,099
Features HDS's Superrefresh Monitor that provides a 75Hz refresh rate, integrated text and graphics capabilities, six multisession windows, and multiple computer connections.

Intecolor Corporation

■ **4100**
14" Monitor • Color • 480x360dpi • VT52/100 Emulation • 38.4Kbps • 48 Function Keys • $1,995
Offers two separately controllable and displayable screens. Graphics commands include roam, paint, and circle.

■ **CT210**
14" Monitor • Color • 160x96dpi • VT52/100 Emulation • 19.2Kbps • 12 Function Keys • $1,395
DEC VT200/100/52 compatible 14" teminal with 80x24 or 80x132 (true) display. Features attribute colorization and is available with an optional touchscreen.

■ **CT220**
14" Monitor • Color • 1188x250dpi • VT52/100/220 Emulation • 19.2Kbps • 15 Function Keys • $1,695
The CT220 features color-key automatic coloration of monochrome screens and simultaneous display of (1) four character sets and (2) 132 columns.

Integrated Automation

■ **DocuVision**
C • 1728x2240dpi

Interactive Machines, Inc.

■ **IMI 600**
19" Monitor • Color • $100,000

■ **IOS**
19" Monitor • Monochrome • $13,500+

Lanpar Technologies, Inc.

■ **4200**
14" Monitor • VT220 Emulation • $725

■ **MAX 331**
14" Monitor • Monochrome • 800x500dpi • VT330 Emulation • 19.2Kbps
This terminal is 100% compatible with the DEC VT330 graphics standard. Setup in English, French or German. The Max 331 is designed to fill the gap between the DEC VT320 and VT330.

■ **MAX 331I**
14" Monitor • Monochrome • 800x500dpi • VT330 Emulation
This is a single session VT330 compatible terminal with full VT330 ReGIS, SIXEL and Tektronix graphics. Setup in English, French or German.

■ **Vision II-4214**
14" Monitor • Monochrome • 800x375dpi • VT220 Emulation • 19.2Kbps • 15 Function Keys • $999
The Vision II-4214 features multipage display, mouse option support, 96 user programmable functions, and message window capabilities. In addition, the Tek mode features true zoom with five levels of magnification.

■ **Vision II-4250**
14" Monitor • Monochrome • 800x360dpi • VT220 Emulation • 19.2Kbps • 15 Function Keys • $1,099
Emulates the ReGIS with four gray scale levels. Additional capabilities include vector, curve, and circle drawing modes, as well as slanted, tilted, and rotated text support.

Lee Data Corporation

■ **2131**
15" Monitor • Color • VT52/100/220 Emulation • 19.2Kbps • 24 Function Keys • $2,995
The 2131 features a record/playback function, multiple session capabilities, IBM 3270 connectivity and the ability to copy data from session to session.

Lexidata

■ **LEX 90**
19" Monitor • Color • 640x512dpi • $13,925+

Liberty Electronics

■ **Freedom 240**
VT220 Emulation • $1,095

McDonnell Douglas

■ **D135**
19" Monitor • Color • 1024x1024dpi • VT100 Emulation • 19.2Kbps • 32 Function Keys • $39,000
The D135 is eqipped with 1MB of local memory and may be expanded to 4MB. It is also available with optional graphics features such as 3-D rotation, smooth pan, and zoom.

■ **D2300**
19" Monitor • Color • 3072x2304dpi • VT100 Emulation • 9.6Kbps • $49,000
The D2300 is equipped with 1MB of local memory and may be expanded to 12MB. It also features image control dials that provide 3-D rotation, smooth pan, infinitely variable zoom as well as Z-clipping plane positioning.

■ **D2301**
19" Monitor • Color • 3072x2304dpi • VT100 Emulation • 9.6Kbps • $65,000
The D2301 also features opaque and translucent surface display modes, shading modes, depth cueing, hidden-line removal, and the automatic maintenance of shading and hidden-line displays.

■ **D4107A**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation

■ **D4111**
19" Monitor • Color • 1024x768dpi • VT100 Emulation • 19.2Kbps • $14,000
The D4111 is equipped with 256KB of local memory and may be expanded up to 1.2MB. It features local zoom and pan capabilities, and provides full UNIGRAPHICS functionality (on-screen menus eliminate the separate message monitor).

■ **D4125**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps • $25,000

■ **D4128**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps
The D4125 and D4128 are equipped with 288KB of local memory and may be expanded up to 4.5MB. Also feature selective erase and deskside graphics controllers, and may be upgraded to the D4128 or 4129, respectively.

■ **D4129**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps • $38,000
The D4129 features local hidden line removal and local shading capabilities.

MegaData Corporation

8188-7
15" Monitor • VT100 Emulation • 19.2Kbps • 32 Function Keys • $2,910
Features include an MC-68000 CPU, 256 character set (512 optional), VT100/UTS40/IBM3270 emulations operator selectable, dual host ports, serial and parallel printer ports.

Megatek Corporation

■ **7255T**
19" Monitor • Color • 1024x1024dpi • 1Mbps • 15 Function Keys • $39,000+

■ **7500**
19" Monitor • Color • 1024x1024dpi • VT100 Emulation • 32 Function Keys • $23,200+
The 7255T and 7500 are equipped with WAND, Megatek's multilevel graphics software and TEMPLATE, Megatek's device independent graphics software.

■ **9100**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 1Mbps • 64 Function Keys • $24,500+
Graphics functions include polygon fill, line pattern, depth cueing, 4x4 matrix transformations, rotate, scale and translate capabilities.

■ **9300**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 1Mbps • 64 Function Keys • $35,000+
Same as the 9100. Also features Phong, Gouraud and flat shading, a movable light source, true hidden surface removal, surface patterns, and advanced geometric primitives, including cubic B-splines.

Micro-Term Inc.

■ **4540**
14" Monitor • Monochrome • 800x500dpi • VT100/220/240 Emulation • 19.2Kbps • Function Keys • $1,495
All Micro-Term's 45xx terminals feature a 90 day warranty period for on-site TRW support. They also feature a high speed multihost and multisession which allow the terminal to function as two separate terminals, at different baud rates, with separate communication protocols, and independent emulations.

■ **4560**
14" Monitor • Monochrome • 640x480dpi • VT100/220 Emulation • 38.4Kbps • 15 Function Keys • $1,295
The 4560 features 4Kx4K addressable memory with dedicated zoom and pan keys, true reverse video graphics capabilities, a drawing speed of two million pixels per second, a snapshot memory feature, and three graphics or seven alpha pages of scrollable memory. It also offers three gray scale levels. Printer support includes the DEC LA50/100, C. Itoh, and Epson.

■ **5520**
M • 800x500dpi • VT220/320 Emulation • 38.4Kbps • $699
Bridges the gap DEC created between its VT320 and 330/340 terminals. Standard features include programmable compose key, function keys operable in the VT100 mode and a bidirectional printer port.

■ **5530**
14" Monitor • Monochrome • 800x500dpi • VT100/240/330 Emulation • 38.4Kbps • $1,665
Features ReGIS and Tektronix support, six pages of memory, and high speed graphics.

Miltope Corporation

■ **TER-100**
M • 256x512dpi • VT100 Emulation • $27,700
The TER-100 is MIL qualified.

Mini Computer Technology

■ **2019W**
19" Monitor • Monochrome • 1024x784dpi • VT100 Emulation
The 2019W is a standalone system.

■ **2215B**
15" Monitor • Monochrome • 1024x784dpi • VT100 Emulation • $3,495

■ 2216
15" Monitor • Color • 640x490dpi • VT100 Emulation • $4,995

■ 2219
19" Monitor • Monochrome • 1024x784dpi • VT100 Emulation • $6,950

■ 2219W
19" Monitor • Monochrome • 1024x784dpi • VT100 Emulation • $7,950

■ 2315
15" Monitor • Monochrome • 1024x784dpi • VT100/220 Emulation • $4,995

■ 2319
19" Monitor • Monochrome • 1024x784dpi • VT100 Emulation • $8,450

■ 2319W
19" Monitor • Monochrome • 1024x784dpi • VT100 Emulation • $9,450

■ 3219W
19" Monitor • Monochrome • 2048x1568dpi • VT100 Emulation • $14,950

■ 3220W
19" Monitor • Color • 2048x1568dpi • VT100 Emulation • $13,950

■ 3220W
19" Monitor • Color • 2048x1568dpi • VT100 Emulation • $15,450
The 3219W and 3220W models are standalone systems.

Modgraph, Inc.

■ GX-1105
14" Monitor • Color • 1024x768dpi • VT52/100 Emulation • 38.4Kbps • Function Keys • $3,850

■ GX-1105-19
19" Monitor • Color • 1024x768dpi • VT100 Emulation • 38.4Kbps • Function Keys • $5,850
The GX -1105 Series emulates the VT100 and Tek 4105 in text and graphics modes, respectively. Options include mouse and tablet support as well as multiple (four) graphics screens.

■ GX-2000
15" Monitor • Monochrome • 1024x780dpi • VT100/220 Emulation • 19.2Kbps • Function Keys • $1,295
The GX 2000 terminals emulate the VT220 and Tek 4014 in text and graphics mode, respectively. The GX-2000 features pan and zoom, scaling and pattern fill capabilities, as well as mouse and tablet support. Three additional graphics memory planes are available as options.

Northwest Digital Systems

■ GP-220Z
14" Monitor • Monochrome • 1024x780dpi • VT52/100/220 Emulation • 38.4Kbps • 25 Function Keys • $1,595
Graphics functions include true zoom and pan, area fill, erase, and move, pattern and seed fill, arc draw, and animation. It offers four gray scale levels and has two independent display memory banks of 200KB each.

■ GP220L
14" Monitor • Monochrome • 1024x780dpi • VT52/100/220 Emulation • 38.4Kbps • 25 Function Keys • $1,295
Graphics functions include zoom and pan, area fill, erase, and move, pattern, and seed fill, arc draw, and animation. Includes support for HP, DEC, Epson, C.Itoh, QMS, and Apple Imagewriter printers.

Panamax

■ GT4620
13" Monitor • Color • 672x504dpi • VT100 Emulation • $29,000

■ GT4624
19" Monitor • Color • 672x504dpi • VT100 Emulation • $29,000

■ GT4635A
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • $49,000

■ GT4670
19" Monitor • Color • 1536x1157dpi • VT100 Emulation • $59,000

Pericom Inc.

■ MG100
15" Monitor • Monochrome • 1024x780dpi • VT100/220 Emulation • 19.2Kbps • 23 Function Keys • $1,895

■ MG200
15" Monitor • Monochrome • 1024x780dpi • VT100/132/220 Emulation • 19.2Kbps • 23 Function Keys • $2,195

■ MG600
15" Monitor • Monochrome • 1024x780dpi • VT100/132/220 Emulation • 19.2Kbps • 23 Function Keys • $2,750

■ MG620
20" Monitor • Monochrome • 1024x780dpi • VT100/132/220 Emulation • 19.2Kbps • 23 Function Keys • $3,995

■ MG700
17" Monitor • Monochrome • 1024x780dpi • VT100/132/220 Emulation • 19.2Kbps • 23 Function Keys • $2,750
The above MG Series features pan and zoom capabilities, support for digitizer and mouse GIN devices as well as hardcopy output.

■ MX7100
14" Monitor • Color • 640x480dpi • VT100/220/240 Emulation • 38.4Kbps • 15 Function Keys • $3,495
The MX7100 features a drawing speed of 1.5 million pixels per second. Options include increments of .5, 1, and 1.5MB of memory as well as digitizer support.

■ MX7200
15" Monitor • Color • 1024x784dpi • VT100/220/240 Emulation • 38.4Kbps • 15 Function Keys • $4,995

■ MX7250
19" Monitor • Color • 1024x784dpi • VT100/220/240 Emulation • 38.4Kbps • 15 Function Keys • $6,495
The MX7200 and 7250 feature drawing speeds of 1.5 million pixels per second as well as optional digitizer support.

■ MX7300
15" Monitor • Color • 1024x784dpi • VT100/220/240 Emulation • 38.4Kbps • 15 Function Keys • $6,995

■ MX7350
19" Monitor • Color • 1024x784dpi • VT100/220/240 Emulation • 38.4Kbps • 15 Function Keys • $8,495
The MX7300 and 7350 feature drawing speeds of 1.5 million pixels per second as well as optional digitizer support. An optional eight-planes feature provides 256 displayable colors from a palette of 16.7 million.

Qume Corporation

■ QVT 212GX
14" Monitor • Monochrome • 640x480dpi • VT100 Emulation • 19.2Kbps • 8 Function Keys • $1,295
The 212GX supports Plot 10 graphics software and displays four gray shades.

■ QVT 311GX
14" Monitor • Monochrome • 640x480dpi • VT52/125 Emulation • $1,995

■ QVT 511GX
14" Monitor • Color • 480x360dpi • VT52 Emulation • 19.2Kbps • 8 Function Keys • $2,995
The 511GX supports Plot 10 graphics software and displays four gray shades.

Radcal-Redac, Inc.

■ ColorCadet
19" Monitor • Color • 512x512dpi • $50,000+

■ PCB600
19" Monitor • Color • 512x512dpi • $175,000
The PCB600 was designed to be compatible with the 11/730, 750 and 780.

Ramtek Corporation

■ 4321
15" Monitor • Color • 1280x1024dpi • VT220 Emulation • 19.2Kbps
The 4300 Series is equipped with 400KB of user memory and may be expanded to 4.4MB with optional upgrades of 512KB, or 1MB or 2MB. This Series also supports various optional GIN devices, and is available with a 19" monitor upgrade, optional host resident parallel interfaces, Ethernet interface options, as well as an optional VAX/VMS device driver.

■ 4322
15" Monitor • Color • 1280x1024dpi • VT220 Emulation • 19.2Kbps • $8,995

■ 4325
15" Monitor • Color • 1280x1024dpi • VT220 Emulation • 19.2Kbps
The 4322 and 4325 are equipped with 400KB of user memory and may be expanded to 2.4MB with optional increments of 512KB, or 1MB or 2MB.

■ 4327
15" Monitor • Color • 1280x1024dpi • VT100/220 Emulation • 19.2Kbps • $15,995

■ 4327
15" Monitor • Color • 1280x1024dpi • VT220 Emulation • 19.2Kbps • $15,995
The 4327 Series also emulates GKS, and supports the DR11-W and GPIF interfaces. The maximum baud rate for the parallel port is 1.6Mbps.

■ 4660
15" Monitor • Color • 1280x1024dpi • VT100/220 Emulation • 19.2Kbps • $20,000
The 4600 features Image Display Instruction Set (IDIS) firmware that provides a substantial speed improvement to the vector and text instructions.

■ 4660
15" Monitor • Color • 1280x1024dpi • VT220 Emulation • 19.2Kbps • $20,000
Equipped with .5MB of user memory and may be expanded to 4.5MB with optional increments of 1MB or 2MB. Features zoom and pan capabilities and supports various optional GIN devices. Available with a 19" monitor upgrade, optional host resident parallel interfaces, an optional VAX/VMS device driver and an optional DR11 parallel interface.

■ 9460
15" Monitor • Color • 1280x1024dpi • VT220 Emulation • 9600bps • $28,000

■ 9461
15" Monitor • Color • 1280x1024dpi • VT220 Emulation • 9600bps • $28,000

■ 9462
15" Monitor • Color • 1280x1024dpi • VT220 Emulation • 9600bps • $28,000

■ 9463
15" Monitor • Color • 1280x1024dpi • VT220 Emulation • 9600bps • $28,000
The 9460, 9461, 9462, and 9463 terminals are graphics Display Generator Systems that include a 19" rackmount with a 17 card capacity, one-to-four MCPs, up to 32 planes of refresh memory, one-to-three video generators, and up to 1,000,000bytes of Display List Memory.

■ 9465
C • 640x512dpi • VT100 Emulation

■ 9467
15" Monitor • Color • 1280x1024dpi • VT220 Emulation • 9600bps • $28,000
The 9467 model includes a 19" rackmount with a nine card capacity, up to 16 bits of refresh memory, up to two video generators, and support for up to two independent display generators.

SAI Technology

■ Series 5000
M • 512x512dpi • VT100 Emulation • 38.4Kbps • Function Keys • $28,000+

■ Series 7000
M • 256x512dpi • VT100 Emulation • 38.4Kbps • Function Keys • $28,000+
The 5000 and 7000 Series are full MIL spec devices with modular construction that feature an 80186 microprocessor. Options include 40 function bezel switches, a nuclear hardened and tempest nacsim 5100A design.

■ Series 8000
M • 576x640dpi • VT100 Emulation • 19.2Kbps • Function Keys • $65,000+
The 8000 is a full MIL spec device.

Samsung Electron Devices America, Inc.

■ SAMTRON SD-325
14" Monitor • Monochrome • 1024x500dpi • VT220/320 Emulation • 57.6Kbps • 20 Function Keys • $699
The SAMTRON SD-325 also emulates the Tek 4010/4014.

Seiko Instruments

■ GR-4406
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 32 Function Keys • $20,950
Options include a control unit with a LCD

display, digitizing tables, a function keyboard and hardcopy units.

■ **GR-4416**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 32 Function Keys • $20,950
Options include a control unit with a LCD display, digitizing tables, a function keyboard and hardcopy units.

Spectragraphics Corporation

■ **DS1081**
19" Monitor • Color • 1024x1024dpi • VT100 Emulation • 32 Function Keys • $12,900

■ **DS1082**
19" Monitor • Color • 1024x1024dpi • VT100 Emulation • 32 Function Keys • $14,900

■ **DS1082GX**
19" Monitor • Color • 1024x1024dpi • VT100 Emulation • 1.544Mbps • 32 Function Keys • $15,500

■ **DS1500**
19" Monitor • Color • 1024x1024dpi • VT100 Emulation • 32 Function Keys • $22,900
The DS Series features rotation, scaling, and translation of 2-D and 3-D objects, three axis clipping with multiple viewports, intensity modulation of colors to show depth in 3-D images, and the removal of polygons.

Systerm, Inc.

■ **KD1220G**
C • 512x240dpi • VT100/220 Emulation • 19.2Kbps
This terminal is available with a selectable screen size.

■ **KD220G**
14" Monitor • Monochrome • 512x240dpi • VT52/100/220 Emulation • 19.2Kbps • Function Keys • $795
The KD220G is capable of vector graphics applications. It also features 256x240x16 gray levels.

■ **KD500G**
14" Monitor • 512x240dpi • VT100 Emulation • 19.2Kbps

Tab Products Company

■ **132/156**
15" Monitor • Monochrome • 1024x779dpi • VT52/100 Emulation • $1,195

Talaris Systems Inc.

■ **T7600**
14" Monitor • Monochrome • 1024x780dpi • VT52/200 Emulation • 57.6Kbps • 45 Function Keys • $1,995
The T7600 is a preview terminal that is designed to accompany any one of the Talaris laser printers. It allows operators to preview text and graphics documents before printing. It features up to 28 proportionally spaced fonts, as well as 512KB of RAM. Optional mouse available.

Tektronix, Inc.

■ **4111**
19" Monitor • Color • 1024x768dpi • VT52/100 Emulation • 8 Function Keys • $8,995
Graphics features include rubberbanding, gridding, inking, and polygon-fill. Supports RGB video out and coax cables.

■ **4205**
13" Monitor • Color • 480x360dpi • VT52/100/200 Emulation • 8 Function Keys • $2,495

■ **4207**
13" Monitor • Color • 640x480dpi • VT52/100/200 Emulation • 8 Function Keys • $3,995
Copier support includes the 4691/92/93D/95/96/44, 4510A, as well as HP Laserjet, Thinkjet and the Epson FX-80.

■ **4208**
13" Monitor • Color • 640x480dpi • VT52/100/200 Emulation • 8 Function Keys • $4,995
The 4205, 4207, and 4208 terminals allow users to draw on independent surfaces, make surfaces invisible, or overlay two or more surfaces for a composite image.

■ **4209**
19" Monitor • Color • 640x480dpi • VT52/100/200 Emulation • 38.4Kbps • $6,995

■ **4224**
16" Monitor • Color • 1024x768dpi • 38.4Kbps • $12,950

■ **4225**
16" Monitor • Color • 1280x1024dpi • 38.4Kbps • $15,950
The 4224 and 4225 are equipped with 4MB-8MB of graphics memory and supports thumbwheels, tablets, a mouse and a cursor pad. A 16MHz 68020 graphics processor is standard. Printer support includes the Tek 4692, 4696, and the 4693D. The Tek 4301, an Applications Processor, is compatible with the 4200 Series terminals. Serves up to eight terminals and increases the flexibility and product lifetime by adding high-powered, cost-effective local computing resources to the Series.

■ **4235**
16" Monitor • Color • 1280x1024dpi • 38.4Kbps • $23,500

■ **4236**
16" Monitor • Color • 1280x1024dpi • 38.4Kbps • $33,500

■ **4237**
16" Monitor • Color • 1280x1024dpi • 38.4Kbps • $37,500
The 4235, 4236, and 4237 are equipped with 4MB-52MB of graphics memory and support thumbwheels, tablets, a mouse, valuator dials and a cursor pad. A 16MHz 68020 graphics processor is standard and a DMA interfaces are available options. Printer support includes the Tek 4692, 4696, and the 4693D.

■ **SF4208**
13" Monitor • Color • 640x480dpi • VT52/100/200 Emulation • 8 Function Keys • $5,495
Environmentalized for harsh conditions with a sealed keyboard, and a chassis to protect equipment from dirt, liquids and excessive cold or humidity. Features an overheat sensor with automatic shutdown.

Teleray

■ **30**
13"* Monitor • Color • 640 x 480dpi • VT340 Emulation • 38.4Kbps • $2,690
The model 30 allows up to four sessions on-screen at the same time from the same or separate hosts. Each session can be configured with its own display characteristics and set of colors.

Transiac Corporation

■ **TR1024**
15" Monitor • Monochrome • 1024x480dpi • VT100 Emulation • $3,750

Transtech International Corporation

■ **Sinoterm**
12" Monitor • VT100 Emulation • $5,600

Trillium Corporation

■ **1100**
C • 640x480dpi • $300K+

Verticom, Inc.

■ **CD-1**
13" Monitor • Color • 640x480dpi • VT100 Emulation • $795

■ **VG-07**
13" Monitor • Color • 640x480dpi • VT100 Emulation • $3,495

■ **VG-09**
19" Monitor • Color • 640x480dpi • VT100 Emulation • $5,995

VG Systems, Inc.

■ **VG3300**
21" Monitor • Color • 4Kx4Kx4Kdpi • $40,000

Visual Technology, Inc.

■ **603**
14" Monitor • Monochrome • 1056x400dpi • VT52/100/220 Emulation • 38.4Kbps • 15 Function Keys • $695
The 603 also features a 70Hz refresh rate and a bit-mapped display.

■ **630**
14" Monitor • Monochrome • 1056x800dpi • VT52/100/220 Emulation • 38.4Kbps • 15 Function Keys • $995
The 630 has 512KB of memory and also features 256Kb RAM memory to enable compiled C-code to be downloaded and run at the terminal level. The 630 also features a standard mouse GIN device.

W. W. Gaertner Research, Inc.

■ **Inrad II**
6-25" Monitor • Color • 1024x1280dpi • $43,500+

Wyse Technology

■ **WY-99GT**
14" Monitor • Monochrome • 800x338dpi • VT52/100/220 Emulation • 38.4Kbps • 16 Function Keys • $649
The WY-99GT also emulates the following terminals: ADDS Viewpoint A2, Lear Siegler ADM 3A/5/31, Hazeltine 1500, and Televideo 910/912/920/925/950/955.

Workstations

CalComp, Inc.

■ **CGS 4600**
15" Monitor • Color • 1280x1024dpi • VT100 Emulation • 256 Displayable Colors • Serial/Parallel Interface(s) Supported • $6,995+
Equipped with a powerful graphics engine and a digitizer. This system functions through a single dedicated card in the MicroVAX.

Colorgraphic Communications Corporation

■ **CEBRA 286**
19" Monitor • Color • 640x480dpi • VT100/200 Emulation • 38.4Kbps • 16 Displayable Colors • (2) Serial/Parallel Interface(s) Supported • $4,000
Open architecture information display that also emulates TK4010/4014/4015 and is available with an optional 20MB or 40MB hard drive, a 1.2MB floppy drive and a controller.

Datamedia Corporation

■ **386/20-00**
14" Monitor • Color/Monochrome • 800x480dpi • VT340/241 Emulation • 38.4Kbps • 256 Displayable Colors • 2MB of Local Memory • Serial/Parallel Interface(s) Supported • $4,895
Diskless LAN workstation that features a 32-bit Intel 80386 CPU with a processing speed of 4.6 MIPS. Options include a SCSI port, an Ethernet adapter, and CARDfiles that provide up to 256KB RAM or PROM.

■ **386/20-01**
14" Monitor • Color/Monochrome • 800x480dpi • VT340/241 Emulation • 38.4Kbps • 256 Displayable Colors • 2MB of Local Memory • Serial/Parallel Interface(s) Supported • $5,195
Same as 386/20-00. Also includes a 3.5" diskette.

■ **386/20-08**
14" Monitor • Color/Monochrome • 800x480dpi • VT340/241 Emulation • 38.4Kbps • 256 Displayable Colors • 2MB of Local Memory • (2) Serial Interface(s) Supported • $6,995
Same as the 86/20-00. Also includes a 3.5" 80MB hard disk.

■ **COLORSCAN/2**
14" Monitor • Color • 640x480dpi • VT240 Emulation • 38.4Kbps • 16 Displayable Colors • 768KB of Local Memory • (2) Serial/Parallel Interface(s) Supported • $2,000+
Features CPU, and graphics, communications, and systems controllers all on a single circuit board. Features parallel operation in both VAX and MS-DOS environments. Options include RAMfile, an internal 2MB RAM storage device, CARDfile, up to 512KB removable storage device, and DISKfile, a compact disk housing unit for 3.5" hard and floppy drives.

Evans & Sutherland

■ **PS390**
19" Monitor • Color • 8192x6912dpi • VT100 Emulation • 16.7m Displayable Colors • 2MB

of Local Memory • Serial Interface(s) Supported • $32,950+
The PS390, a high-performance 3-D system, provides the highest image reslution available with a vector performance of 356,000 per second. It supports stereo viewing, optional interfaces and peripherals.

■ **PS390A+**
19" Monitor • Color • 8192x6912dpi • VT100 Emulation • 16.7 Million Displayable Colors • 2MB of Local Memory • Serial Interface(s) Supported • $34,950+
The PS390A+ provides all the features of the PS390 plus raster text, fast flat shading, host-presorted dynamic area fill, and pickable polygons. It is compatible with PS390 applications and software.

GE Calma Company

■ **DIMENSION III**
$27,000+

■ **Prism/DDM**
$27,000+
The DIMENSION III and the Prism/DDM are fully integrated, 3-D solid modeling systems for use in computer aided design, engineering, and manufacturing in the mechanical and A-E-C industries.

Genisco Peripheral Systems

■ **HS-30**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps • 256 Displayable Colors • Up To 16MB of Local Memory • (4) Serial/Parallel Interface(s) Supported
This graphics station is equipped with a 20MHz MC68020, and was designed to work with GBase, Genisco's version of the PHIG standard, featuring imbedded graphics software. It also supports a touchscreen.

■ **HS-40**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps • 256 Displayable Colors • Up To 16MB of Local Memory • (4) Serial/Parallel Interface(s) Supported
The HS-30 and -40 graphics stations are equipped with 20MHz MC68020s, and were designed to work with GBase, Genisco's version of the PHIG standard, featuring imbedded graphics software. Also support touchscreens.

■ **HS-50**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps • 4096 Displayable Colors • Up To 16MB of Local Memory • (4) Serial/Parallel Interface(s) Supported
Same as the HS-30 and HS-40. HS-50 configurations are available to support dual channel, and up to 20 planes of pixel memory and the ability to provide hardware double buffering.

■ **HS-60**
19" Monitor • Color • 1280x1024dpi • VT100 Emulation • 19.2Kbps • 4096 Displayable Colors • Up To 16MB of Local Memory • (4) Serial/Parallel Interface(s) Supported
Same as the HS-30, HS-40, and the HS-50. The HS-60 station also features increased addressable pixel memory.

Geo Based Systems, Inc.

■ **GWS 3**
19" Monitor • Color • 1024x1024dpi • $30,000+

Integrated Solutions, Inc.

■ **Advantage 2000**
19" Monitor • Color • 1280x1024dpi • 256 Displayable Colors
Standard features include 64bytes of total cache memory-32KB for instruction and 32KB for data. 4MB main memory expandable to 16MB. Ethernet, with built-in transceiver for Cheapernet support.

■ **Optimum 13/16**
19" Monitor • Color/Monochrome • 1280x1024dpi
Features include 13 or 16 slots, up to 32MB of physical memory, dual operating system environment supporting both UNIX 4.3SD and UNIX System V Release 3.0, X Window System, dual-bus architectures.

■ **Optimum 20/24**
19" Monitor • Color/Monochrome • 1280x1024dpi
Features include 20 or 24 slots, up to 32MB of physical memory, dual operating system environment supporting both UNIX 4.3SD and UNIX System V Release 3.0, X Window System, and dual-bus architectures.

■ **Optimum 8**
19" Monitor • Color/Monochrome • 1280x1024dpi
Features include eight slots, up to 32MB of physical memory, dual operating system environment supporting UNIX 4.3SD and UNIX System V Release 3.0, X Window System, and dual-bus architectures.

Intergraph Corporation

■ **InterPro 125**
15" Monitor • Color • 1184x884dpi • VT220 Emulation • 19.2Kbps • 32 Displayable Colors • 6MB of Local Memory
Features a 4MIPS CPU, 6/16MB of memory, and a standard 156MB internal disk. A 19" monitor is also available.

■ **InterPro 225**
19" Monitor • Color • 1184x884dpi • VT220 Emulation • 19.2Kbps • 32 Displayable Colors • 16MB of Local Memory
Features a 5MIPS CPU, 16MB of memory, and a standard 156MB internal disk.

■ **InterPro 3050**
19" Monitor • Color • 1184x884dpi • VT220 Emulation • 512 Displayable Colors • 16MB of Local Memory
Features a 10MIPS CPU, 16/80MB of memory, and a standard 355MB/670MB internal disk.

■ **InterPro 3055**
19" Monitor • Color • 1184x884dpi • VT220 Emulation • 19.2Kbps • 512 Displayable Colors • 16MB of Local Memory
Features a 10MIPS CPU, 16/112MB of memory, and a standard 670MB internal disk.

■ **InterPro 3070**
27" Monitor • Color • 1664x1248dpi • VT220 Emulation • 19.2Kbps • 512 Displayable Colors • 16MB of Local Memory
Features a 10 MIPS CPU, 16/80MB memory, and a standard internal 355MB/670MB disk.

■ **InterPro 340**
19" Monitor • Color • 1184x884dpi • VT220 Emulation • 19.2Kbps • 512 Displayable Colors • 8MB of Local Memory
Features a 5MIPS CPU, 8/16MB of memory, and a standard 156MB internal disk.

Jupiter Systems

■ **Satellite RTOS**
1280x1024dpi
This is a dedicated graphics workstation designed for the systen integrator and OEM. It has extensive graphics capabilities and features a front end processor, versatile interfacing and a real time operating system.

McDonnell Douglas

■ **R390**
19" Monitor • Color • 4096x3456dpi • 256 Displayable Colors
Features the use of Evans & Sutherland's Shadowfax technology which (1) produces high-quality lines on a raster display, (2) features high speed custom VLSI circuitry, and (3) performs depth-cueing. Graphics capabilities include rotation about any axis, translation in any direction, scaling, mirror images about a plane, perapective and clipping, compound matrix transformations, and viewporting.

MIPS Computer Systems, Inc.

■ **RS2030**
16/19" Monitor • Color • 1280x1024dpi • 256 Displayable Colors • 8MB of Local Memory • $19,500+

■ **RS2030**
17" Monitor • Monochrome • 1280x1024dpi • 8MB of Local Memory • $19,500+
MIPS Computer Systems is the leading supplier of RISC technology, computer systems, optimizing compilers, and operating systems. MIPS markets a full range of high-performance computer systems based on UNIX and RISC.

Omnicomp Graphics Corporation

■ **OMNI 1500 Transportable**
15" Monitor • Color • 1280x1024dpi • 19.2Kbps • 256 Displayable Colors • 1MB of Local Memory • Serial Interface(s) Supported • $12,950
Transportable system that may be stored with a standard 9-U NATO (EDAC) case, providing protection from impact, temperature change, humidity and other environmental demands. Supports multiple screen applications including process control/industrial automation and military workstations.

Pericom Inc.

■ **MX7286**
15/19" Monitor • Color • 1024x768dpi • VT100/220/240 Emulation • 19.2Kbps • 16 Displayable Colors • 256KB of Local Memory • Serial Interface(s) Supported • $3,995+

■ **MX7386**
15/19" Monitor • Color • 1024x768dpi • VT100/200/240 Emulation • 19.2Kbps • 16/256K Displayable Colors • 256KB of Local Memory • Serial Interface(s) Supported • $6,850+
The MX7286 and 7386 feature up to 40MB of storage on a hard disk with a choice of 5" or 3.5 " floppy drives.

SAEC Microsystems

■ **386-33**
16" Monitor • Color • 1024x768dpi • 9600bps • 256 Displayable Colors • 4MB of Local Memory • $8,495
The 386-33 features 8 MIP performance, an Intel 80387-33 math coprocessor, a 160MB ESDI hard disk and a 16" color monitor.

SAI Technology

■ **9000**
M • 1024x1024dpi • Serial Interface(s) Supported • $65,000+
The 9000 features an ACGAS Plasma display with modular construction. It is equipped with the SAI/PHIGS graphics library and is available with optional display heads (CRT EL).

Seiko Instruments

■ **GR-4400**
19" Monitor • Color • 1280 x 1024dpi • 65,526 Displayable Colors
Workstation features 420,000 3-D vector transformations per second; full Phong, Gouraud and flat shading capabilities.

Silicon Graphics, Inc.

■ **Personal IRIS**
$16,000+

Spectragraphics Corporation

■ **CS 1080**
C • 256 Displayable Colors
The CS 1080 is a graphics and communication system that provides 5080 terminal emulation and IBM mainframe communications for the Digital VAXstation. Allows users access to applications such as CADAM and CATIA directly from their workstation.

Sun Microsystems, Inc.

■ **SPARCstation**
19" Monitor • Color • 1152x900dpi • VT100 Emulation • 52Kbps • 256 Displayable Colors • 8MB of Local Memory • $39,900+

■ **SPARCstation 1GX**
16" Monitor • Color • 1152x900dpi • VT100 Emulation • 52Kbps • 256 Displayable Colors • 8MB of Local Memory • $14,495+

■ **SPARCstation 330GX**
19" Monitor • Color • 1152x900dpi • VT100 Emulation • 52Kbps • 256 Displayable Colors • 8MB of Local Memory • $27,900+

■ **SPARCstation 370GX**
19" Monitor • Color • 1152x900dpi • VT100 Emulation • 52Kbps • 256 Displayable Colors • 8MB of Local Memory • $48,900+

■ **Sun-3/470GX**
19" Monitor • Color • 1152x900dpi • VT100 Emulation • 52Kbps • 256 Displayable Colors • 8MB of Local Memory • $48,900+

■ **Sun-3/470GXP**
19" Monitor • Color • 1152x900dpi • VT100 Emulation • 52Kbps • 256 Displayable Colors • 8MB of Local Memory • $54,900+

■ **Sun-3/80TC**
16" Monitor • Color • 1152x900dpi • VT100 Emulation • 52Kbps • 256 Displayable Colors • 4MB of Local Memory • $15,995+

■ **SUN-3180GX**
16" Monitor • Color • 1152x900dpi • VT100 Emulation • 52Kbps • 256 Displayable Colors • 4MB of Local Memory • $13,995+

Tektronix, Inc.

■ **4125**
19" Monitor • Color • 1280x1024dpi • VT51/100 Emulation • 38.4Kbps • 4-256* Displayable Colors • 288KB of Local Memory • Serial Interface(s) Supported • $16,950
This graphics workstation has the potential for an easy growth path to 3-D wireframe and 3-D shaded-surface graphics. Copier support includes the 4632, 4634, and the 4690 Series.

■ **4126**
19" Monitor • Color • 1280x1024dpi • VT52/100 Emulation • 38.4Kbps • 16 Displayable Colors • 2MB of Local Memory • Serial Interface(s) Supported • $29,950
This graphics workstation includes a pair of lightweight glasses that enables users to view 3-D stereoscopic images without distorting normal vision, thereby enhancing realism and depth perception. Screen resolution in stereoscopic mode is 1280x512, per eye. Copier support includes the 4632, 4634, and 4690 Series.

■ **4128**
19" Monitor • Color • 1280x1024dpi • VT52/100 Emulation • 38.4Kbps • 16 Displayable Colors • 288KB of Local Memory • Serial Interface(s) Supported • $19,950
The 4128 workstation allows users to combine 2-D and 3-D information on the screen. It also may be upgraded (with the addition of the 4100F59 3-D Shaded Surface Kit) to the hidden-line removal and 3-D shaded surface graphics of the 4129. Copier support includes the 4632, 4634, and 4690 Series.

■ **4129**
19" Monitor • Color • 1280x1024dpi • VT52/100 Emulation • 38.4Kbps • 256 Displayable Colors • 288KB of Local Memory • Serial Interface(s) Supported • $29,950
The 4129 workstation features local support for shaded surfaces and hidden line removal. Users also may rotate objects around horizontal, vertical, or depth axes and view objects from different vantage points using the 3-D zoom and pan, rotate, roll, radius, aim, focus and depth functions. Copier support includes the 4632, 4634, and 4690 Series.

■ **4211**
19" Monitor • Color • 1280x768dpi • VT200 Emulation • 256 Displayable Colors • 2.75MB of Local Memory • Serial Interface(s) Supported
Provides direct connection to both distributed processing and dedicated host environments in design, simulation, manufacturing automation, and data analysis and representation applications.

■ **4315**
13" Monitor • Monochrome • 640x480dpi • 5MB of Local Memory • Serial Interface(s) Supported • $9,995

■ **4316**
19" Monitor • Monochrome • 1376x1024dpi • 4MB of Local Memory • Serial Interface(s) Supported • $18,950
The 4316 has 16 levels of gray scale capabilities.

■ **4317**
19" Monitor • Color • 1376x1024dpi • 16 Displayable Colors • 4MB of Local Memory • Serial Interface(s) Supported • $18,950
The 4315, 4316, and 4317 are equipped with an 86MB hard disk, a 1.2MB flexible disk, as well as 68020 and 68881 coprocessors. Optional mass storage expands the hard disk storage capacity to either 156 or 300MB. Printer support includes the 4692 the 4693D.

■ **4324**
16" Monitor • Color • 1024x768dpi • Tek 4125 Emulation • 256 Displayable Colors • 4MB of Local Memory • (2) Serial Interface(s) Supported • $26,950

■ **4325**
16" Monitor • Color • 1280x1024dpi • Tek 4125 Emulation • 256 Displayable Colors • 4MB of Local Memory • (2) Serial Interface(s) Supported • $29,950

■ **4335**
16" Monitor • Color • 1280x1024dpi • Tek 4125/4128 Emulation • 16 Displayable Colors • 4MB of Local Memory • (2) Serial Interface(s) Supported • $37,500

■ **4336**
16" Monitor • Color • 1280x1024dpi • Tek 4125/4128 Emulation • 256 Displayable Colors • 4MB of Local Memory • (2) Serial Interface(s) Supported • $47,500

■ **4337**
16" Monitor • Color • 1280x1024dpi • Tek 4125/4128 Emulation • 4096 Displayable Colors • 4MB of Local Memory • (2) Serial Interface(s) Supported • $51,500
The 4324, 4325, 4335, 4336, and the 4337 are equipped with an 86MB hard disk, a 1.2MB flexible disk, 12MB of graphics memory, 20MHz 68020 and 68881 coprocessors, and a 16MHz 68020 graphics processor. Optional mass storage expands the hard disk storage capacity to either 156MB or 300MB.

Virtual Imaging

■ **VIEW1000**
19" Monitor • Color/Monochrome • 2048x2048dpi • 19.2Kbps • 8MB of Local Memory • Serial Interface(s) Supported
This model includes the same features as the VIEW2000; however, hard disk storage begins at a 24MB capacity, with larger capacities available for expansion. Applications include remote MRI/CT viewing, image reception and viewing for teleradiology, and imaging research.

■ **VIEW2000**
19" Monitor • Color/Monochrome • 2048x4096dpi • 19.2Kbps • 8MB of Local Memory • Serial Interface(s) Supported
Same as the VIEW1000. The VIEW2000 also features an 80286 control microprocessor, a 5 1/4" flexible disk, and a 40MB hard disk (with an optional expansion in capacity). Includes one to four image display channels for monochrome or pseudo color, or a single channel for true (RGB) color.

■ **VIEWbox**
19" Monitor • Color/Monochrome • 2048x2048dpi • 19.2Kbps • 4MB of Local Memory • Serial Interface(s) Supported
The VIEWbox is an image display station designed to provide viewing of high quality images primarily obtained from, or processed on a VIEW2000.

X Window Terminals

Acer Counterpoint, Inc.

■ **Model 100**
14" Monitor • Monochrome • VT220 Emulation • $995
This low end family member affords the ideal platform for delivery of Vertical Applications based on the X Window System at the lowest possible price.

■ **Model 200**
14" Monitor • Monochrome • VT220 Emulation • $1,495
This midrange model offers a more powerful CPU and additional server memory to provide a cost effective, general purpose, X Terminal for complex applications.

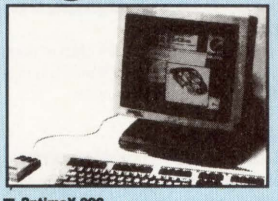
■ **Model 200C**
15" Monitor • Color • VT220 Emulation • $1,995
The addition of color makes this model ideally suited for X applications using color coded information such as process control consoles and business graphics packages.

Falco Data Products

■ **System 4000X**
$8,750
The System 4000X is an X Window workstation that features 4MB RAM, 80MB hard disk storage, a 1.2 floppy disk drive, and a TCP/IP Ethernet card. An optional color graphics card is available to configure the workstation as an X Window server.

GraphOn Corporation

GraphOn



■ **OptimaX 200**
14" Monitor • Monochrome • VT100/220 Emulation • 57.6Kbps • $1,395
OptimaX 200 for DECwindows applications, featuring 800x600dpi resolution, page white 14" non-glare CRT, 75Hz noninterlaced refresh, built-in VT100/220 mode, three RS232 ports for host, mouse, and printer, tilt and swivel monitor, enhanced VT100/220 keyboard, and a $1,395 US list price. Recently introduced for use with Sun 3 or 4 workstations, the OptimaX 200 now may be used with VAX computers that run version 5.1 of the VMS operating system, with DECwindows. This X terminal may be connected to the computer or workstation directly, through a terminal server, or via modem. An efficient protocol enables the OptimaX 200 to communicate over simple and inexpensive RS232 serial lines. Based on the unique OptimaX architecture, in which the X11 server resides on the computer or workstation, the OptimaX 200 applies its processing power to display-related tasks, yielding good interactive response and minimizing memory costs.

Human Designed Systems

■ **ViewStation**
14" Monitor • Monochrome/Color • 10Mbps • $1,999+
Supports up to 8MB of memory and includes a 10MHz Intel 80186 for communications and preprocessing as well as a TI 34010 controller for graphics processing and display. Available with a 19" monitor.

Network Computing Devices

Network Computing Devices



■ **NCD 16**
16" Monitor • Monochrome • 38.4Kbps • $2,500
The NCD 16 is a high resolution (1024x1024dpi) bit-mapped display station which supports the X Window System for windowing and graphics capabilities and Ethernet with TCP/IP or DECnet for network communications. It offers a mouse-driven workstation-style interface to a wide variety of hosts, such as VMS and UNIX minicomputers running X client applications. With a 12.5MHz 68000 microprocessor, a graphics coprocessor, and up to 4.5MB of RAM, the NCD 16 delivers high performance. It is compatible with DECwindows and offers terminal emulation through Telnet cterm and serial sessions. It has many ergonmic features including a 16" square screen, noiseless operation, and compact size.

Northwest Digital Systems

n **GP-220W**
14" Monitor • Monochrome • VT100/220 Emulation • 38.4Kbps • $1,695
Same as the GP-220Z graphics terminal. Also features 512KB of memory as well as the ability to maintain 16 separate text windows while directly managing these windows through a command application program.

Peritek Corporation

■ **VCK-Q/U**
15" Monitor • Color • VT100 Emulation • 38.4Kbps • $6,500

■ **VCK-Q/U**
19" Monitor • Color • VT100 Emulation • 38.4Kbps • $6,500+

Visual Technology, Inc.

■ **640-XDS**
14" Monitor • Monochrome • VT102 Emulation • 38.4Kbps • $1,995
Full DECwindows support including DECDECISION and DECWRITE on VMS and ULTRIX. Includes keyboard, optical mouse, integrated Ethernet with DECnet or TCP/IP.

■ **790 XDS**
19" Monitor • Monochrome • VT102 Emulation • 38.4Kbps • $2,995
Full DECwindows support including DECDECISION and DECWRITE on VMS and ULTRIX. Includes keyboard, optical mouse, integrated Ethernet with DECnet or TCP/IP.

OUTPUT DEVICES

BAND PRINTERS

Model	Graphics Support	Color Capabilities	Printing Speed (lpm)	Standard Characters	Compressed Characters	Maximum Paper Width	Paper Type	Controller Included	Dimensions (wxhxd)	Serial/Parallel	Price
Data Systems Hardware 703 478-0080											
VX036	N	N	1500	132		15"	C	Y	44.5x34.3x29.7	S/P	$24,000+
VX037	N	N	2000	132		15"	C	Y	44.5x34.3x29.7	S/P	$24,000+
VX157	Y	N	600	132	250	14"	C	Y	22.5x33x38.5	S/P	$7,995
VX159	Y	N	900 ipm	132	250	14"	C	Y	22.5x33x38.5	S/P	$7,995
DataProducts Corporation 818 887-8000											
B 1000	N	N	1025	132	N	16"	C	N	34.3x44.5x29.7	S/P	$14,395
B 300	N	N	300	64		16"	C	N	30.3x15x25.2	S/P	$7,205
B 600	N	N	650	64		16"	C	N	30.3x15x25.2	S/P	$9,815
BP 1500	N	N	1500	48	N	18.75"	C	N	35.5x49x29.5	S/P	$22,700
BP 2000	N	N	2000	48	N	18.75"	C	N	35.5x49x29.5	S/P	$30,390
LB 1015	N	N	1010	64	N	16"	C	N	31x44x27	S/P	$10,995
LB 1515	N	N	1210	64	N	16"	C	N	31x44x27	S/P	$14,995
LB 300	N	N	325	64	N	16"	C	N	31x44x27	S/P	$5,695
LB 315	N	N	325	64	N	16"	C	N	31x44x27	S/P	$6,636
LB 615	N	N	650	64	N	16"	C	N	31x44x27	S/P	$7,495
LM 1200	Y	N	1200			18"	C	N	43x39x25	S/P	$27,595
LM 300	Y	N	300	136		16.75"	C	N	11x23x18	S/P	$5,795
LM 600	Y	N	600		N	16.75"	C	N	11x23x18	S/P	$7,895
LM 900	Y	N	900			18"	C	N	43x39x25	S/P	$21,595
DeRex Inc. 305 753-0840											
9000-IV	N	N	1700	48-96		18"	C	Y	42x47x33	P	$26,950
B1000	N	N	1000	48-96		16"	C	Y	34x44.5x30	S/P	$13,250
B1500	N	N	1500	48-96		18.75"	C	Y	35.5x49x29.5	S	$22,000
B2000	N	N	2000	48-96		18.75"	C	Y		S	$29,950
B300	N	N	300	48-96		16"	C	Y	30x15x25	S	$6,375
LW1000	N	N	1200	48-96		18"	C	Y	29x43x33	S/P	$9,950
LW400	N	N	400	48-96		18"	C	Y	29x36x27	S/P	$4,995
LW800	N	N	800	48-96		18"	C	Y	29x36x27	S/P	$6,995
First Computer Corporation 312 920-1050											
ULW400				64	128						$7,260
Genicom Corporation 800 443-6426											
4285	N	N	2000	132	N	18"	C		42x47x32	P	$26,950
E Series Model III	N	N	1600	48	132	16.25"	C	N	34x48x27	P	$18,950
Linewriter 1255	N	N	1200	64	132	18"	C		29x43x33	S/P	$11,595
Linewriter 400	N	N	400	132	198	18"	C	N	29x36x27	S/P	$6,096
Linewriter 455	N	N	400	132	198	18"	C	N	29x43x33	S/P	$6,913
Linewriter 800	N	N	720	132	N	18"	C		29x36x27	S/P	$7,490
Linewriter 855	N	N	720	132	N	18"	C		29x43x33	S/P	$8,307
Hetra, Inc. 407 589-7331											
3115-12	N	N	1210	136		16"	C	N	44x31x27	S*/P*	
3115-3	N	N	300	136		16"	C	N	44x31x27	DP	
3115-6	N	N	650	136		16"	C	N	44x31x27	DP	
3300-H0		N	1000	132		19"	C	N	37.5x44x29.5	S	$17,500
3300-H12		N	1200	132		19"	C	N	37.5x44x29.5	S	$20,500

BAND PRINTERS

Model	Graphics Support	Color Capabilities	Printing Speed (lpm)	Standard Characters	Compressed Characters	Maximum Paper Width	Paper Type	Controller Included	Dimensions (wxhxd)	Serial/Parallel	Price
Hetra, Inc. 407 589-7331 (continued)											
3300-H6		N	600	132		19"	C	N	37.5x44x29.5	S	$14,500
533-0		N	1000	132		19"	C	N	37.5x44x29.5	S	$21,500
533-12		N	1200	132		19"	C	N	37.5x44x29.5	S	$24,500
533-6		N	600	132		19"	C	N	37.5x44x29.5	S	$18,500
InterScience Computer Services 818 707-2000											
ICS 1000	N		1100		96	16"	C	Y	34.3x44.5x29.7	DP	
ICS 1500	N		1250		96	18.75"	C	Y	35.5x49x29.5	S/P	$20,031
ICS 2000	N		1680		96	18.75"	C	Y	35.5x49x29.5	S/P	$25,431
ICS 300	O		150			16.75"	C	Y	23.3x10.75x17.75	S/P	
ICS 315	O		150			16.75"	C	Y	23.4x39.4x23.4	S/P	
ICS 600	O		300			16.75"	C	Y	23.4x39.4x30	S/P	
ICS 615	O		300			16.75"	C	Y	23.4x39.4x30	S/P	
LM1200	O		320			18"	C	Y	38.7x43.3x25	S/P	
LM900	O		480			18"	C	Y	38.7x43.3x25	S/P	
Nissei Sangyo America, Ltd. 619 485-8552											
FP 1500-HA	N	*	1500	48		17"	C	N	36x46x33	DP/P	
FP 1500A	N	*	1500	48		17"	C	N	36x45.7x32.8	DP/P	
FP 2000A	N	*	2000	48		17"	C		36x45.7x32.8	DP/P	
FP 2000A-HA	N	*	2000	48		17"	C	N	36x46x33	DP/P	
UP 1000A	N	*	1000	48		16"	C		28x42x31.5	S*/P	
UP 400A	N	*	430	48		16"	C		28x42x31.5	S*/P	
UP 700A	N	*	700	48		16"	C		28x42x31.5	S*/P	
Synergy Printer Systems 415 490-0223											
FB1200	N	N	1200	64	96	17"	C		28x43x36		$15,950
FB300	N	N	300	64	96	17"	C		28x43x36		
FB600	N	N	600	64	96	17"	C		28x43x36		$6,950
FB900	N	N	900	64	96	17"	C		28x43x36		$10,950

DAISY WHEEL PRINTERS

Model	Impact	Buffer Size (Bytes)	NLQ Printing Speed (cps)	Standard Characters	Compressed Characters	Resolution (Bits)	Maximum Paper Width	Paper Type	Dimensions (wxhxd)	Serial/Parallel	Price
Data Terminal Mart 416 677-0184											
130	Y		50							S	$1,995
40	Y		40							S	$1,645
55	Y		55							S	$1,945
90	Y		90							S	$2,345
90WT	Y		90							S	$3,195
Panasonic 201 392-4406											
KX-P3131	Y	6K	17			120x48	13.5"	C	18.9x6.6x12.8	P	
KX-P3151	Y	7K	22	68		120x48	15.5"	S/C	22.1x7.5x15	P	
Primages, Inc. 516 585-8200											
90-GT	Y	2K	90	135	202	N/A	16.5"	SS	24.5x7.4x15.5	S/P	$1,295

The important differences in color hardcopy come not from the printer but the interface. If a special driver is needed every time you add another software package, your video printer isn't worth the desk space. With Toyo's intelligent video interface, you don't need special software drivers. The built-in, high-speed (125 MHz) interface automatically adjusts to any CRT display. Simply plug in, and answer a few menu questions. That's it.

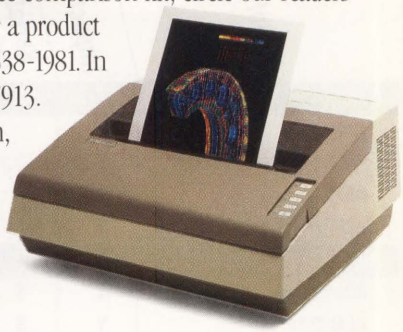


And when you want the printer to serve other terminals, will you have to add awkward switches or expensive multiplexers? Not with Toyo. The interface can store up to eight pre-set system conditions with different video timings and specifications. Mix Sun, Apollo, Mac II, and other high resolution (to 1280 x 1024) workstations, PCs and graphics systems in any combination. Toyo serves them all.

Will your interface give you special printing effects? Without going back to the computer, the Toyo video interface can instruct the printer to print any one color pass, reverse black and white, adjust tones, make extra copies, and enlarge, center or designate print location.

When most people compare, they choose Toyo. Our free comparison kit will show you why. It will also give you some ideas on what to look for in video printers. And interfaces.

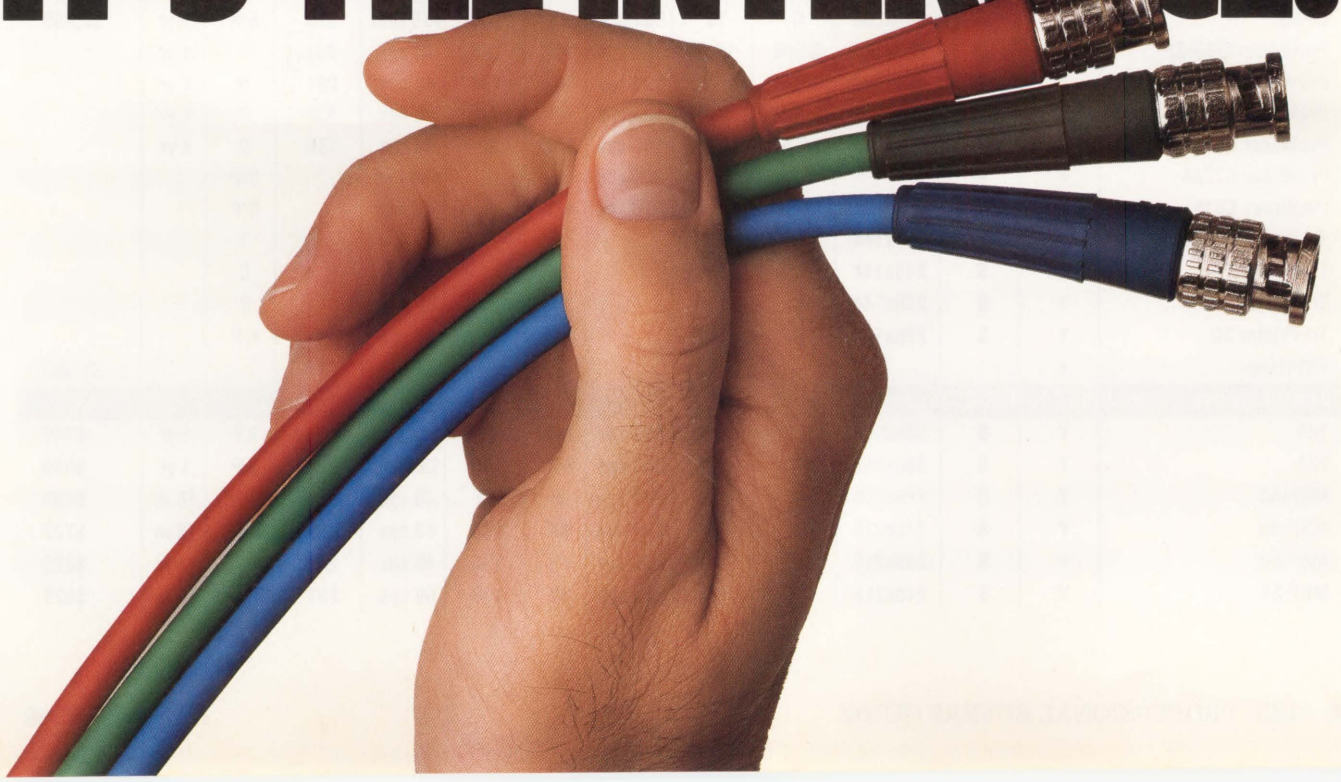
For your free comparison kit, circle our readers' service number. For a kit or a product demo, call toll-free 1-(800) 338-1981. In California, call (408) 739-7913. Toyo Spectrum Corporation, 2934 Corvin Drive, Santa Clara, CA 95051, Fax: (408) 720-9643.



TOYO SPECTRUM
See the difference.

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Apollo is a trademark of Apollo Computer. MAC II is a trademark of Apple Computer.

THE DIFFERENCE ISN'T THE PRINTER; IT'S THE INTERFACE.



DOT MATRIX PRINTERS

Model	Impact	Serial/Line Printer	Resolution (Bits)	Paper Type	Maximum Paper Width	Draft Printing Speed	Buffer Size (Bytes)	Standard Characters	NLQ Printing Speed	Compressed Characters	Serial/Parallel	Warranty	Price
Advanced Matrix Technology, Inc. 805 499-8741													
AMT	Y		240x240	S	15"		8K		45 cps		S/P	90 d	
AMT	Y		240x120	S	15"		8K		45 cps		S/P	90 d	$1,845
AMT	Y		240x120	S	15"		40K		45 cps		S/P	90 d	$1,845
AMT	Y		240x120	S	15"		40K		45 cps		S/P	90 d	$1,845
Alps America 408 432-6000													
Allegro 24	Y	S	180x360	C	10"	180 cps	7K	87	60 cps	148	S/P	1 yr	$499
ALQ224e	Y	S	360x180	S	11"	240 cps	23K	80	80 cps	160	S/P	1 yr	$875
ALQ324e	Y	S	360x180	S	16"	240 cps	23K	136	80 cps	272	S/P	1 yr	$1,095
ASP 1000	Y	S	60x240	C	9.5"	120 cps	8K	80	24 cps	136	S/P	1 yr	$299
P2000	Y	S	240x214	S	16"	250 cps	4K	132	50 cps	234	S/P	1 yr	$995
P2100	Y	S	240x214	C	16"	400 cps	4K	136	80 cps	234	S/P	1 yr	$1,595
P2100/DEC	Y	S	240x214	C	16"	400 cps	4K	136	80 cps	234	S/P	1 yr	$1,595
P2400C	Y	S	360x180	S	16"	360 cps	68K	136	120 cps	272	S/P	1 yr	$1,495
Axonix Corporation 801 466-9797													
ThinWrite 100	Y	S	240x240	S/C/R	10"	100 cps	4K	80	25 cps	136	S/P	1 yr	$499
C.Itoh Electronics, Inc. 714 757-4485													
9500D	Y	S		S/C		250 cps			50 cps		S		$749
9515D	Y	S		S/C		250 cps			50 cps		S		$949
C310-P	Y	S	240x144	S/C/R	11"	300 cps	10K	80	50 cps	137	P	1 yr	
C310-R	Y	S	240x144	S/C/R	11"	300 cps	10K	80	50 cps	137	S	1 yr	
C315-P	Y	S	240x144	S/C/R	15.5"	300 cps	10K	136	50 cps	233	P	1 yr	
C315-R	Y	S	240x144	S/C/R	15.5"	300 cps	10K	136	50 cps	233	S	1 yr	
C610		S	180x360	C		200 cps	32K		66 cps		S/P		$799
CI-2500	Y	S	180x120	C/R	15.5"	300 cps	10K	136	50 cps	220	S	1 yr	$1,049
CI-400/800	Y	L	200x288	C	16"	400 lpm	4K	136	85 lpm	220	S/P	1 yr	$5,595
CI-4010	Y	S		C/S	16"	400 cps			87.5 cps	217	S/P		
CI-4030	Y	S		C/S	16"	400 cps			87.5 cps	233	S/P		
CI-5000	Y	S	330x216	S/C/R	16"	450 cps	8K	136	110 cps	233	S/P	1 yr	$1,995
CI-800	Y	L	200x288	C	16"	800 lpm	4K	136	170 lpm	220	S/P	1 yr	$7,495
ProWriter 1550-SP	Y	S	160x144	S/C/R	15.5"	180 cps	10K	136	45 cps	231	P	1 yr	
ProWriter 1550-SR	Y	S	160x144	S/C/R	15.5"	180 cps	10K	136	45 cps	231	R	1 yr	
ProWriter 8510-SP	Y	S	160x144	S/C/R	10"	180 cps	10K	80	45 cps	136	P	1 yr	
ProWriter 8510-SR	Y	S	160x144	S/C/R	10"	180 cps	10K	80	45 cps	136	S	1 yr	
ProWriter C715A	Y	S		S/C		300 cps			100 cps		S/P		
ProWriter C815	Y	S		S/C	15.5"	570 cps	42K		162 cps		S/P		
Tri Printer 10	Y	S	144x144	C	16"		2K		87 cps		S		
Tri Printer 20P	Y	S	240x144	C	16"		2K		87 cps		C		
Tri Printer 20S	Y	S	240x144	C	16"		2K		87 cps		S		
Tri Printer 30	Y	S	206x144	C	16"		1.5K		87 cps		S/P		
TriPrinter	Y							96	88 cps	233			$1,995
Citizen America Corporation 213 453-0614													
124	Y	S	360x180	S/C	10"	200 cps	24K	80	132 cps	144	S/P	1 yr	$749
224	Y	S	360x180	S/C	17"	200 cps	24K	136	132 cps	244	S/P	1 yr	$999
MSP-40	Y	S	240x216	S/C	10"	240 cps	8K	80	48 cps	136	S*/P	18 m	$499
MSP-45	Y	S	240x216	S/C	16"	240 cps	8K	136	48 cps	231	S*/P	18 m	$729
MSP-50	Y	S	240x216	S/C	16"	240 cps	8K	136	48 cps	231	S*/P	18 m	$629
MSP-55	Y	S	240x216	S/C	16"	300 cps	8K	136	60 cps	231	S*/P	18 m	$829

DOT MATRIX PRINTERS

Model	Impact	Serial/Line Printer	Resolution (Bits)	Paper Type	Maximum Paper Width	Draft Printing Speed	Buffer Size (Bytes)	Standard Characters	NLQ Printing Speed	Compressed Characters	Serial/Parallel	Warranty	Price
Craden Peripherals Corp. 609 488-0700													
DP4	Y	S							150 cps				
DataProducts Corporation 818 887-8000													
LM1200	Y	L		C	18	1200 lpm		170	320 lpm	283	S/P	90 d	$27,595
LM300	Y	L		C	16.75	300 lpm		138		231	S/P	90 d	$5,795
LM315	Y	L		C	16.75	300 lpm		138		231	S/P	90 d	$6,895
LM600	Y	L		C	16.75	600 lpm		138		231	S/P	90 d	$7,895
LM615	Y	L		C	16.75	600 lpm		138		231	S/P	90 d	$8,795
LM900	Y	L		C	18	900 lpm		170	480 lpm	283	S/P	90 d	$21,595
Datasouth Computer Corporation 704 523-8500													
BarCode 300	Y	S		C	15"	300 cps		132		217	S/P	1 yr	$1,995
DS 180+	Y	S		C	15"	180 cps	4K	132		217	S/P	1 yr	$1,395
DS 180DD	Y	S		C	15"	180 cps		132		217	S/P	1 yr	$1,695
DS 220	Y	S		S/C	15"	220 cps	4K	132	45 cps	217	S/P	1 yr	$1,695
DS 400	Y	S		C	15"	400 cps	16K	132	120 cps	217	S/P	1 yr	$1,995
DeRex Inc. 305 753-0840													
1040	Y	S		C/S	16"	360 cps			90 cps		S/P	90 d	$1,799
3410 XDQ	Y	S	144x144	C/S	15.5"	400 cps			100 cps		S/P	90 d	$2,275
3800	Y	S	400x144	C/S	16"	500 cps	4K		125 cps		S/P	90 d	$2,100
4410	Y	L	140x144	C	16.54"	400 lpm			82 lpm		S/P	90 d	$5,000
4440	Y	L	140x144	C	16.54"	800 lpm			165 lpm		S/P	90 d	$7,500
4470	Y	L		C		1200 lpm			250 lpm		S/P	90 d	$12,250
4490	Y	L	140x280	C	16.54"	1400 lpm			300 lpm		S/P	90 d	$17,200
Epson America, Inc. 213 539-9140													
LQ1000	Y		360x360	S/C	10"		7K		60 cps		S/P	1 yr	
LQ1050	Y		360x180	S/C	16"		6K		73 cps		S/P	1 yr	
LQ800	Y		360x360	S/C	16"		7K		60 cps		S/P	1 yr	
LQ850	Y		360x180	S/C	10.1"		6K		73 cps		S/P	1 yr	
LX800	Y		240x72	S/C	10"		3K		30 cps		S*/P	1 yr	
Facit Inc. 603 647-2700													
4528D	Y	S		C	15"	200 cps	6K	136			S/P	1 yr	$1,875
4528V	Y	S		C	15"	200 cps	6K	136			S/P	1 yr	$1,625
4528V	Y	S		C	11.5"	200 cps	6K	80			S/P	1 yr	$1,675
B1100	Y	S	60x240	C	10"	135 cps	8K	80	27 cps		S/P	1 yr	$325
B1150	Y	S	60x240	C	15.5"	160 cps	8K	136	535 cps		S/P	1 yr	$495
B3100	Y	S	60x240	C/S	10"	250 cps	12K	80	60 cps		S/P	1 yr	$745
B3150	Y	S		C	16"	250 cps	12K	136	60 cps		S/P	1 yr	$895
B3350	Y	S	60x240	C	16"	200 cps	12K	136	100 cps		S/P	1 yr	$995
B3350	Y	S	60x240	C/S	16"	400 cps	12K	136	100 cps		S/P	1 yr	$1,495
B3450	Y	S	60x360	C/S	16"		16K	136	80 cps		S/P	1 yr	$1,298
C6510	Y	S	60x240	C/S	16"	300 cps	6K	136	75 cps		S/P	1 yr	$1,972
C6520	Y	S	60x240	C/S	16"	300 cps	6K	136	75 cps		S/P	1 yr	$1,972
C7500	Y	S	60x240	C/S	16"	400 cps	4K	136	100 cps		S/P	1 yr	$2,599
DocuMate 3000	Y	S		C	9.5"	240 cps	5K	80	80 cps		S/P	1 yr	$1,749
Genicom Corporation 800 443-6426													
3320Q	Y	S	144x144	S/C	15.5"	360 cps	512	136	180 cps	244	S/P	1 yr	$1,965
3410 XLQ	Y	S	144x144	S/C	15.5"	480 cps	2K	136	120 cps	244	S/P	1 yr	$2,175
Series 1020	Y	S	240x144	S/C/T	16"	200 cps	2K	136	100 cps	231	S	1 yr	$1,065
Series 1025	Y	S	240x144	S/C	11"	200 cps	2K	80	100 cps	136	S	1 yr	$899

DOT MATRIX PRINTERS

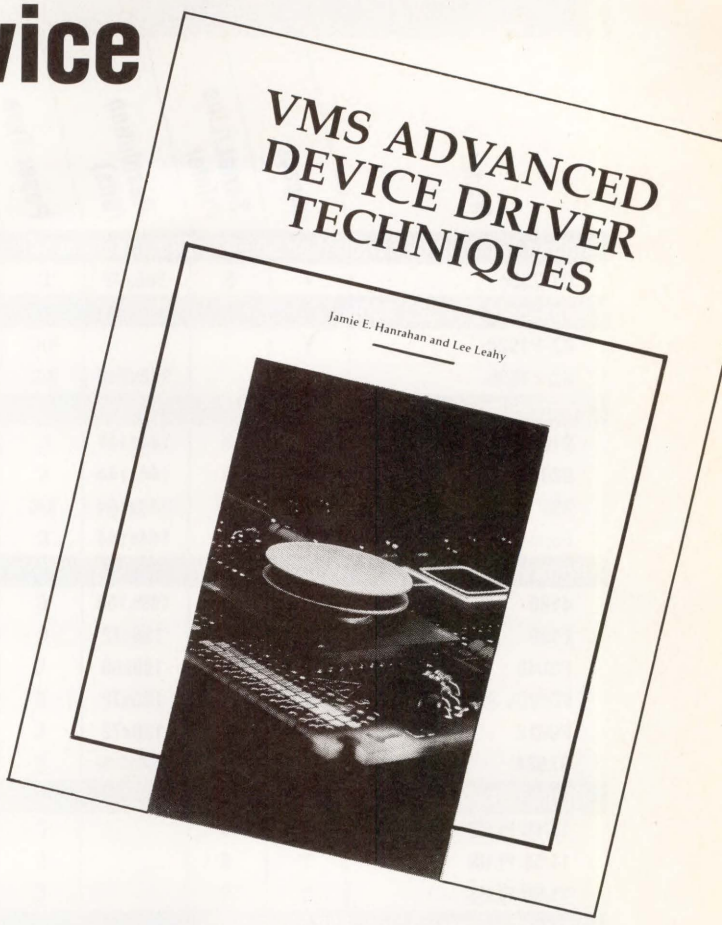
Model	Impact	Serial/Line Printer	Resolution (Bits)	Paper Type	Maximum Paper Width	Draft Printing Speed	Buffer Size (Bytes)	Standard Characters	NLQ Printing Speed	Compressed Characters	Serial/Parallel	Warranty	Price
Genicom Corporation 800 443-6426 (continued)													
Series 3000	Y	S	288x144	S/C	15.5"	480 cps	512	132	180 cps	244	(2)S/P	1 yr	$1,495+
Series 3000Q	Y	S	288x144	S/C	15.5"	480 cps	512	132	180 cps	244	(2)S/P	1 yr	$1,495+
Series 4410	Y	L	140x144	C	16.54"	400 lpm	2K	136	82 lpm	204	(2)S/P	1 yr	$6,195
Series 4440	Y	L	140x144	C	16.54"	800 lpm	2K	136	165 lpm	204	(2)S/P	1 yr	$7,795
Series 4470	Y	L	280x144	C	16.54"	1200 lpm	2K	136	250 lpm	204	S/P	1 yr	$12,228
Series 4490	Y	L	280x144	C	16.54"	1400 lpm	2K	136	300 lpm	204	S/P	1 yr	$17,228
Hewlett-Packard Company 415 857-1501													
HP2563B	Y	L	140x144	C	16.7"	300 lpm		132		220	S/P	90 d	$7,790
HP2564B	Y	L	140x144	C	16.7"	600 lpm		132		220	S/P	90 d	$12,950
HP2566B	Y	L	140x144	C	18"	900 lpm		132		220	S/P	90 d	$22,640
HP2567B	Y	L	140x144	C	18"	1200 lpm		132		220	S/P	90 d	$29,170
HP2567B	Y	L	140x144	C	18"	1600 lpm		132		220	S/P	90 d	$30,050
Infoscribe, Inc. 703 689-2805													
1000	Y	S	72x72	C	16"	200 cps	3410	136	100 cps	224	S/P	180 d	$1,390
1100	Y	S	144x144	C	16"	200 cps	3410	136	40 cps	224	S/P	180 d	$1,590
1200	Y	S	144x144	C	16"	200 cps	3410	136	40 cps	224	S/P	180 d	$1,995
1400	Y	S	144x144	C	16"	400 cps	8-32K	136	80 cps	224	S/P	180 d	$1,895
800	Y	S	144x144	C	16"	200 cps	3-4K	136	40 cps	224	S/P	180 d	$1,845
InterScience Computer Services 818 707-2000													
8070+	Y		168x84	S/C	13.2		4K		100 cps		S/P		
ICS 9030	Y		240x72	S/C	11"				53 cps	Y	S*/P		
ICS 9034	Y			S/C	11"				83 cps	Y	S/P		
ICS 9040	Y		240x72	S/C	15.5"				53 cps	Y	S*/P		
ICS 9044	Y		240x72	S/C	15.5"				33 cps	Y	S*/P		
ICS MX100	Y					340 cps			140 cps				
ICS MX120	Y			C	15"			72	180 cps	132	S*/P		
ICS MX200	Y			C	15"			72	340 cps	132	S*/P		
Ithaca Peripherals, Inc. 607 898-9970													
PcOS 250	Y	S	144x144	C	8.5"	160 cps	2K	80	40 cps	132	S*/P	90 d	$995
PcOS 51	Y	S	144x144	C	3.25"		2K*	40	160 cps	56	S*/P	90 d	$420
PcOS 52	Y	S	144x144	C	3.25"		2K*	40	160 cps	56	S*/P	90 d	$495
PcOS 53	Y	S	144x144	C	3.25"		2K*	40	160 cps	56	S*/P	90 d	$480
JDL, Inc. 805 495-3451													
850 EWS	Y	S	180x180	S/C	18"		128K		144 cpi		S/P		
850 EWS/GL+	Y	S	180x180	S/C	18"		128K		144 cpi		S/P		
North Atlantic Industries 516 582-6060													
Tempest 7020	Y	S						96	180 cps	128			$4,490
Tempest 7035	Y	S						96	180 cps	128			$3,990
Okidata Corporation 800 654-3282													
Microline 172	Y	S			8.5"	180 cps			30 cps				$289
Microline 182 Turbo						186 cps			39 cps				$339
Output Technology Corporation 509 926-3855													
2141	Y	S		C	16"	400 lpm					S/P	6 m	$4,895
2161	Y	S		C	16"	600 lpm					S/P	6 m	$6,450
2180		L				800 lpm							$7,895
560DL						560 cps	20K				S/P	6 m	$1,995
850PrintNet	Y	S	100x72	C	16"	240 lpm	256K	136	32 lpm	247	5S/P	6 m	$2,995
850XL	Y	L	100x72	C	16"	240 lpm	256K	136	32 lpm	247	S/P	6 m	$2,395

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DOT MATRIX PRINTERS

Model	Impact	Serial/Line Printer	Resolution (Bits)	Paper Type	Maximum Paper Width	Draft Printing Speed	Buffer Size (Bytes)	Standard Characters	NLQ Printing Speed	Compressed Characters	Serial/Parallel	Warranty	Price
Output Technology Corporation 509 926-3855 (continued)													
OT-700n	Y	S	100x72	C	16"	850 cps	8K	136	66 cps	247	S/P	6 m	$2,095
Panasonic 201 392-4406													
KX-P1524	Y			S/C	16.5"		13.5K	68	67 cps		S/P		
KX-P1595	Y		240x240	S/C	16.5"		15K	68	51 cps	205	S/P		
Printek, Inc. 616 925-3200													
910HT	Y	S	144x144	C	16"	200 cps	2K		45 cps		S/P	1 yr	$1,395
920HT	Y	S	144x144	C	16"	340 cps	2K		80 cps		S/P	1 yr	$1,895
930	Y	S	144x144	S/C	16"	200 cps	2K		80 cps		S/P	1 yr	$1,695
FormsPro 2000	Y	S	144x144	C	15"	200 cps	2K		80 cps		S/P	1 yr	$2,095
Printronix, Inc. 714 863-1900													
4160	Y	L	160x168	C	16"	130 lpm					S/P	1 yr	$5,995
L150	Y	L	120x72	C	16"	150 lpm	256		80 lpm		S/DP	1 yr	$3,745
P3040	Y	L	180x96	C	16"		1K		400 lpm		S/P	1 yr	$4,750
P6000L Series	Y	L	120x72	C	16"	800 lpm			180 lpm		S/P	1 yr	$5,400+
P9012	Y	L	120x72	C	16"	1200 lpm		132	480 lpm		S/DP	1 yr	$12,995
S7024	Y	S	144x144	C		240 cps	6K		60 cps		S/P		$1,365
Qume Corporation 408 942-4000													
11/40 PLUS	Y	S		C	15"			158	40 cps	198	S/P		
11/55 PLUS	Y	S		C	15"			158	55 cps	198	S/P		
11/90 PLUS	Y	S		C	15"			158	90 cps	198	S/P		
Seikosha America, Inc. 800 338-2609													
BP-5420FL	Y	S				420 cps	18K		104 cps		S		$1,999
SBP 10AI	Y	S				800 cps							$4,495
Summus Computer Systems 713 492-6611													
SUM-2400	Y	S	200x200	C	14.5"		24K	136	60 cps		S	90 d	
Taneum Computer Products 206 228-5956													
TCP 660	Y	L	200x200	C	16	800 lpm	8K	132	280 lpm	264	S/P	90 d	$8,990
TCP 690	Y	L	200x200	C	16	1200 lpm	8K	132	450 lpm	264	S	90 d	$11,990
Tempest Technologies, Inc. 703 471-0157													
1020T	Y	S	120x48		16"	200 cps			100 cps		S/P	90 d	$2,995
DWP5155Q	Y	S	120x48	S/C	15"		3K		45 cps		S	90 d	$2,200
LPF 5600	Y	L	120x72	C	16"				600 lpm		S*/P	90 d	$11,500
LPF 5600XQ	Y	L	120x72	C	16"				600 lpm		S*/P	90 d	$12,800
LPM 5300	Y	L	120x72	C	16"				300 lpm		S*/P	90 d	$9,950
LPM 5300XQ	Y	L	120x72	C	16"				300 lpm		S*/P	90 d	$11,250
SLP 3184	Y	S	144x144	S/C	15.5"	200 cps	512		50 cps		S/P*	90 d	$2,895
SLP 3304	Y	S	144x144	S/C	15.5"	200 cps	512		100 cps		S/P*	90 d	$3,595
SLP 3404	Y	S	144x144	S/C	15.5"	400 cps	512		100 cps		S/P*	90 d	$3,995
Texas Instruments, Inc. 800 527-3500													
810	Y	S		C	15"	150 cps	256			132*	S/P	3 m	$1,645
810LQ	Y	S		C	15"		3K		20 cps	218	S/P	3 m	$2,495
850C	Y	S	144x144	C	11"	150 cps	256		35 cps	134	S/P	3 m	$599
850XL	Y	S	144x144	C	11"	150 cps	256		35 cps	134	S/P	3 m	$599
855	Y	S	144x144	C	11"	150 cps	256		35 cps	134	S/P	3 m	$739
860XL	Y		144x144	C	16"	150 cps	256		35 cps	227	S/P	3 m	$899
865	Y	S	144x144	C	16"	150 cps	256		35 cps	227	S/P	3 m	$999
875	Y		144x144	C	10"	240 cps			35 cps	227	S/P	3 m	$799
877	Y		144x144	C	16"	240 cps			35 cps		S/P	3 m	$999

DOT MATRIX PRINTERS

Model	Impact	Serial/Line Printer	Resolution (Bits)	Paper Type	Maximum Paper Width	Draft Printing Speed	Buffer Size (Bytes)	Standard Characters	NLQ Printing Speed	Compressed Characters	Serial/Parallel	Warranty	Price
Texas Instruments, Inc. 800 527-3500 (continued)													
880	Y		144x144	C	15"	300 cps	2K		75 cps	220	S/P	3 m	$2,195
880DP	Y		144x144	C	15"	300 cps	2K		150 cps	220	S/P	3 m	$2,195
885	Y		144x144	C	9.5"	300 cps	6K			132	S/P*	3 m	$2,295
Wallace Computer Services 312-449-8600													
W4300	Y	L							300 lpm	96			$15,200

ELECTROSTATIC PLOTTERS

Model	Color/ Monochrome	# of Colors	Resolution (dpi)	Paper Type	Maximum Paper Width	Dimensions (wxhxd)	Plotting Speed	Serial/Parallel	Plot Memory (Bytes)	Controller Included	Warranty	Price
C.Itoh Electronics, Inc. 714 757-4485												
2400			400x400					S				$55,000
3600			400x400					S				$65,000
CalComp, Inc. 714 821-2100												
5723	M		200x200	C/F	24"	36x44x24	2 ips	S/DP	12/25M	Y	90 d	$22,900
5723XP	M		200x200	C/F	24"	36x44x24	2 ips	S/DP	12-140M	Y	90 d	$26,400
5725	M		400x400	C/F	24"	36x44x24	.7 ips	S/DP	12/25M	Y	90 d	$22,900
5725XP	M		400x400	C/F	24"	36x44x24	.7 ips	S/DP	12-140M	Y	90 d	$26,400
5733	M		200x200	C/F	36"	54x44x24	2 ips	S/DP	12/25M	Y	90 d	$26,500
5733XP	M		200x200	C/F	24"	54x44x24	2 ips	S/DP	12-140M	Y	90 d	$31,000
5735	M		400x400	C/F	36"	54x44x24	.5 ips	S/DP	12/25M	Y	90 d	$27,500
5735XP	M		400x400	C/F	36"	54x44x24	.5 ips	S/DP	12-140M	Y	90 d	$31,000
5745	M		400x400	C/F	44"	63x44x24	.4 ips	S/DP	12/25M	Y	90 d	$65,000
5745XP	M		400x400	C/F	44"	63x44x24	.4 ips	S/DP	12-140M	Y	90 d	$68,500
5825	C	4	400x400	C/F	24"	56x48x28	.7 ips	S/DP	12/25M	Y		$49,000
5825XP	C	4	400x400	C/F	24"	56x48x28	.7 ips	S/DP	12-280M	Y		$55,000
5835	C	4	400x400	C/F	36"	56x48x28	.5 ips	S/DP	12/25M	Y		$59,000
5835XP	C	4	400x400	C/F	36"	56x48x28	.5 ips	S/DP	12-280M	Y		$65,000
5845	C	4	400x400	C/F	44"	64x48x28	.4 ips	S/DP	12/25M	Y		$69,000
5845XP	C	4	400x400	C/F	44"	64x48x28	.4 ips	S/DP	12-280M	Y		$75,000
Precision Image Corporation 415 366-8900												
C448	C	65K	400x400	S	48"	75x50x29	6 min	S/P	20M	Y	90 d	$60,000
M448	M		400x400	S	48"	75x50x29	1.5 min	S/P	20M	Y	90 d	$45,000
Versatec 800 538-6477												
8524	M		200x200		24"		1 ips	S				$16,900
8536	M		200x200		36"		1 ips	S				$19,900

HARD COPY UNITS

Model	Color/ Monochrome	Copy Time	Resolution (Bits)	# of Gray Scales	# of Displayable Colors	Addressability (Bits)	Paper Type	Paper Size	Dimensions (wxhxd)	Image Download Time	Price
Codonics Inc. 216 243-1198											
VP-3500	M	30s	152x152	64		1280x1280	R				$6,700
VP-95 II	M	10s	152x152	1		1280x1280	R				$4,200
Hecon Corporation 201 542-9200											
HardCopy Screen Printer		5-7s									$995
Seiko Instruments 408 922-5950											
CH-5301	C	<45s	152x152		4912		R	A	17.7x12.2x20	3-45s	
CH-5301S	C		152x152					A			$9,995+
CH-5312	C/M	<120s	3328x2048		4912		R	A	20.5x12.2x20	3-45s	
CH-5312S	C		203x203					A			$9,995+
TARGAPLOT-1	C	60s	240x240		4096		R	A	20x12.2x17.7	2-4m	$4,995
TARGAPLOT-2	C	60s	240x240		4096		R	A	20x12.2x17.7		$9,995
TARGAPLOT-3	C	60+s	203x203		>15K		R	B	20x12.2x20.5	2-4m	$5,995
Tektronix, Inc. 503 627-7111											
4690SC	C				8		S/R	A		2-30s	$2,995
4690SC	C				64		S/R	A		2-30s	$9,995
4692	C	1-3m	1536x1152		216	158x158	S	A	24x8.5x24		$7,795
4692S	C						S/T	A			$13,000+
HC01	M	17s		16			R	4"x5"	8.3x4.4x14.1		$980
HC02	M	21s		16			R	A	14.5x4.7x13.3		$1,275

INK JET PRINTERS

Model	Impact	Non-Impact	Resolution (Bits)	Graphics Support	Paper Type	Paper Size	Color Palette	Resident Fonts	Printing Speed	Downloadable Fonts	Serial/Parallel	Warranty	Price
Eastman Kodak 800 255-3434													
Diconix 150 Plus			192x192		S/C/T			Y			P		$499
Hewlett-Packard Company 415 857-1501													
PaintJet		Y	180x180	Y	S/T	A	330	Y	167 cps		S/P*	1 yr	$1,395
Hitachi America, Ltd. 408 773-8833													
HJP-1610		Y	400x400				>262K				S		$150,000
Howtek, Inc. 603 882-5200													
Pixelmaster		Y	240x240	Y	S	A/A4	4		4 ppm		S		$7,500
Tektronix, Inc. 503 627-7111													
4510A				Y	S		130K					90 d	$5,995
4696	Y		120x120	Y	S/T	A	8		35 cps	*	P	90 d	$1,795

ION DEPOSITION PRINTERS

Model	Impact	Non-Impact	Printing Speed (ppm)	Resident Fonts	Downloadable Fonts	Paper Size	Paper Input Capacity	Paper Output Capacity	Dimensions (wxhxd)	Monthly Duty Cycle (pages)	Serial/Parallel	Price
C.Itoh Electronics, Inc. 714 757-4485												
MegaLine	Y		30	4	16	A/B		500	27x24x23	150K	P	
MegaLine	Y		45	4	16	A/B		500	27x24x23	150K	P	$21,995
MegaPro	Y		30/45	8		A/B	500	1000	27x24x23	250K	P/DP	
MegaServe		Y	30/45	43	Y	A/Lgl/A4	500	500	27x24x23	150K+	S/P	$21,995
Data Systems Hardware 703 478-0080												
VX023		Y	45	Y	Y				27x24x23		S/P/E	$29,995
VX023		Y	30	Y					27x24x23		S/P/E	$21,995
Datagraphix 619 291-9960												
4800		Y	75	10		A/B		1500	52x49x27		DP	$64,950
Delphax Systems 617 961-2312												
S3000G		Y	30				1000	1000		250K	DP/P	$20,000+
DeRex Inc. 305 753-0840												
S3000		Y	30	8		A/Lgl/A4	2500	500	27x24x23	250K	P	$12,995
S3000-II		Y	30	8	24	A/Lgl/A4	2500		27x24x23	250K	P/E	$18,995
S4500		Y	45	8		A/Lgl/A4	2500	700	27x24x23	250K	P/E	$21,995
S4500-II		Y	45	8	24	A/Lgl/A4	1000	700	27x24x23	250K	P/E	$26,995
S6000-II		Y	75	8	22	A/Lgl/A4	1500	1500	52x49x27	1m	P	$51,150
Miltope Corporation 516 420-0200												
3802		Y	90	4		9 1/2"	N/A	N/A	32x50x28	1.5m	DP	$69,950
Series 30L		Y	30	8		A	2500	1000	25x22x20	250K	S	$14,000
Series 30M		Y	30	8		A	2500	1000	25x22x20	250K	DP/P	$24,950
Series 37		Y	37	8		9 1/2"	N/A	N/A	48x48x26	250K	DP/P	$39,950
Series 60		Y	60			A	N/A	N/A		1.5m	DP/P	$60,950
Series 75		Y	75	4		A	1500	1500	52x49x27	1m	S	$69,950
NBS Southern, Inc. 800 327-5602												
3880		Y	80	115	Y	A/Lgl*	1900	1600	50x48.5x25	800K		$64,950
Mercurion 1/80		Y	80	4/8*	N	A/Lgl*	1900	1700	50.12x46.5x25	500K		$49,950

LASER PRINTERS

Model	Postscript	Printing Speed (ppm)	Resolution (dpi)	Resident Fonts	Downloadable Fonts	Paper Size	RAM (Bytes)	Paper Input Capacity	Dimensions (wxhxd)	Monthly Duty Cycle (pages)	Serial/Parallel	Price
Advanced Technologies International 408 942-1780												
0880/DW-2		8	300x300	Y	Y	A	768K	1000	21x14x17	6K	S/P	$4,795
0880/DW-3		8	300x300	Y	Y	A	2M	1000	21x14x17	6K	S/P	$4,795
0880/GR-2		8	300x300			A	2M	1000	21x14x17	6K	P	$5,695
1570/DW-2		15	300x300	Y	Y	A/Lgl	768K	500	22x16x19	25K	S/P	$7,995
1570/DW-3		15	300x300	Y	Y	A/Lgl	2M	500	22x16x19	25K	S/P	$7,995
2670/DW-2		26	300x300	Y	Y	A/Lgl/B	768K	1500	27x16x24	100K	S/P	$17,995
2670/DW-3		26	300x300	Y	Y	A/Lgl/B	2M	1500	27x16x24	100K	S/P	$17,995
2670/GR-2		26	300x300			A/Lgl/B	2M	1500	27x16x24	100K	S/P	$17,995
LC-6026		26	300x300	Y	Y	A/Lgl/B	4-8*M	1500	27x16x24	100K	S/P	$24,900

LASER PRINTERS

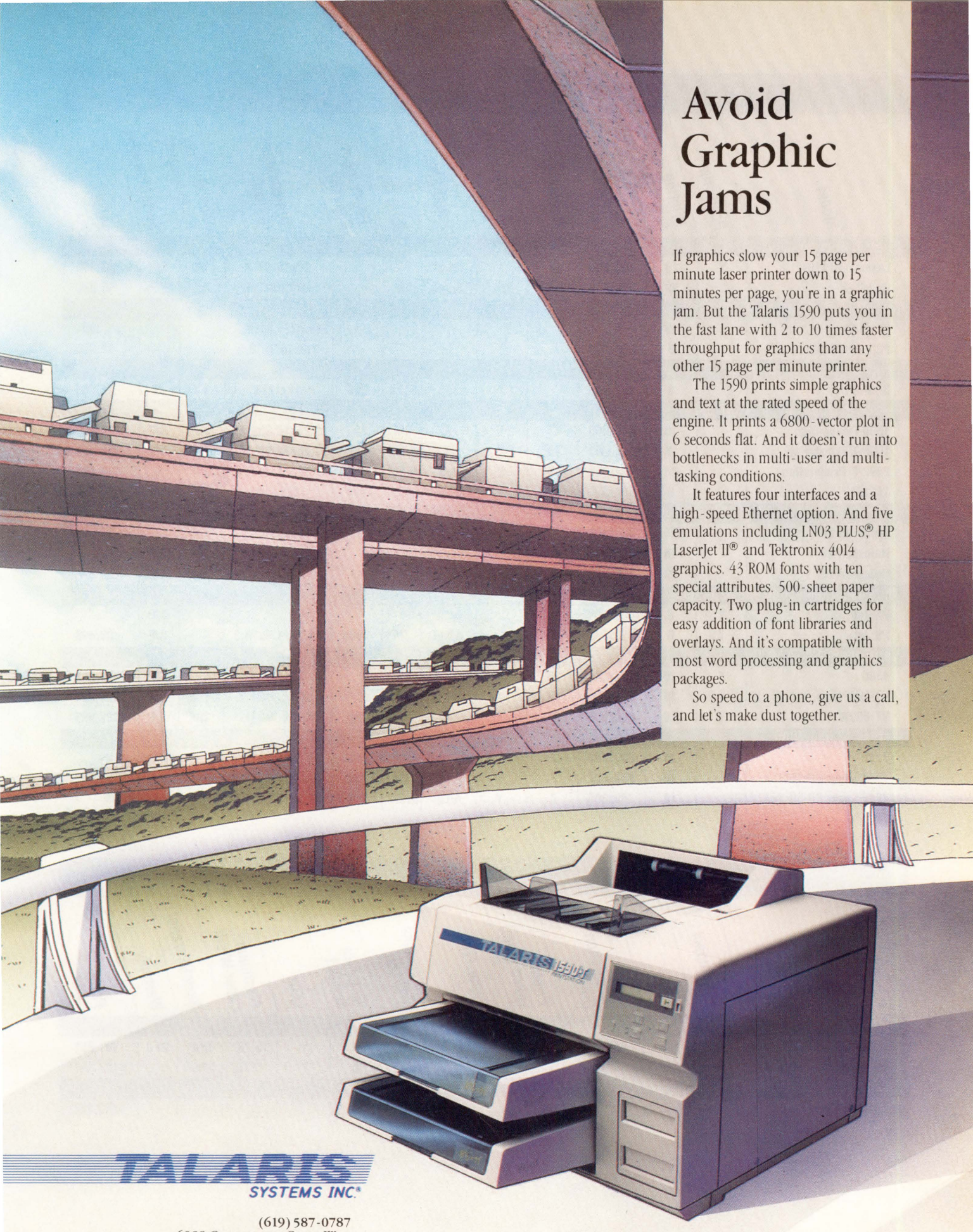
Model	Postscript	Printing Speed (ppm)	Resolution (dpi)	Resident Fonts	Downloadable Fonts	Paper Size	RAM (Bytes)	Paper Input Capacity	Dimensions (wxhxd)	Monthly Duty Cycle (pages)	Serial/Parallel	Price
Agfa-Gaveart 617 658-5600												
P400PS	Y	18	406x406	66		A/Lgl					S/P	
Apollo Computer, Inc. 508 256-6600												
Domain/Laser-26	Y	26	300x300	13		A/Lgl/B					S/P	
Apple Computer, Inc. 408 996-1010												
LaserWriter IINT	Y	8	300x300	35		A/Lgl	2M	200				$4,599
LaserWriter IINTX	Y	8	300x300	35	Y	A/Lgl	2M	200				$4,599
LaserWriter IISC		8	300x300	4		A/Lgl	1M	200				$2,799
BGL Technology Corporation 805 987-7305												
Mark B	*	8	300x300	9	Y	A/Lgl	1M	250	17x10.5x18	10K	S/P	$2,095
Mark I	Y	12	300x300	35	Y	A/Lgl/A4	4-8M	750	18.9x12.6x19.4	25K	S/P	$5,495
Mark II		20	300x300	35	Y	A/Lgl/B	4-8M	1500	26.7x16.1x23.4	80K	S/P	$13,675
Mark III	Y	26	300x300	35	Y	A/Lgl/B	4-8M	1500	26.7x16.1x23.4	80K	S/P	$15,995
C.Itoh Electronics, Inc. 714 757-4485												
LIPS 10+		10	300x300		Y	A/B					S/P	$2,995
LIPS II		10	300x300	92		A/B				15K	S/P	
Camintonn Corporation 714 553-0247												
TurboLaser/PS	Y	8	300x300	35	N	A/A4	3M	250		10K	S/P	$4,795
TurboLaser/PS-Plus3	Y	8	300x300	35	N	A/A4	3M	250		10K	S/P	$5,695
Canon USA, Inc. 516 488-6700												
LPB-8 A1		8	300x300		Y	A/Lgl			18.7x16.3x11.5			$3,000
LPB-8 A2		8	300x300		Y	A/Lgl			18.7x16.3x12.5			$4,300
Data Systems Hardware 703 478-0080												
VX 020	Y	12	300x300	Y		Lgl			12.6x18.9x19.4		S/P	$7,995
Data Terminal Mart 416 677-0184												
L10		10									S	$3,245
DataProducts Corporation 818 887-8000												
LZR 1230		12	300x300	10	Y	A/Lgl		250	18.9x12.6x19.4	25K	S/P	$3,990
LZR 1260	Y	12	300x300	35	Y	A/Lgl		250	19.5 x 5.5 x 19.8	25K	S/P	$7,995
LZR 2620		26	300x300	14	N	A/Lgl/B		750	26.7x16.1x23.4	100K	S/P	$14,550
LZR 2630		26	300x300	10	N	A/Lgl/B		750	26.7x16.1x23.4	100K	S/P	$15,600
LZR 2655		26	300x300	6	Y	A/Lgl/B		750	26.7x16.1x23.4	100K	S/P	$20,800
LZR 2655/LJ		26	300x300	34	Y	A/Lgl/B		750	26.7x16.1x23.4	100K	S/P	$14,995
LZR 2655/LN		26	300x300	17	Y	A/Lgl/B		750	26.7x16.1x23.4	100K	S/P	$14,995
LZR 2665	Y	26	300x300	13	Y	A/Lgl/B		750	26.7x16.1x23.4	100K	S/P	$18,700
DeRex Inc. 305 753-0840												
DRL 10		10	300x300	79	Y	A/Lgl	512K	250	33x11x18	10K	S	$2,895
DRL 10+		10	300x300	79	Y	A/Lgl	1.5M	250	18.5x18.3x14.3	10K	S/P	$4,695
DRL 20		18	300x300	79	Y	A/Lgl	1.5M	250	18.5x18.3x14.3	20K	S/P	$8,395
Diconix, Inc. 513 259-3100												
Dijit 1/PS	Y	20	300x300	17		A/Lgl					S/P	
Facit Inc. 603 647-2700												
P6060		6	300x300	6	Y	A/Lgl	1M	150	8.5x16.25x16	3K	S/P	$1,995
P7080-A		8	300x300	6	Y	A		250	21x13x16.5	10K	S/P	$2,995
Genicom Corporation 800 443-6426												
6140	N	15	400x400	15	22	A/Lgl	1M	200	18x19x9	5K	S/P	$4,295
6142	N	20	400x400	15	22	A/Lgl	1M	200	18x19x9	5K	S/P	$4,995
Hetra, Inc. 407 589-7331												
3024		24	300x300			A/Lgl/B		1500	48.5x36x36	70K		$21,500

LASER PRINTERS

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Hetra, Inc. 407 589-7331 (continued)												
3024S		24	300x300			A/Lgl/B		1500	36x41x27.5	70K		$19,000
3808		8	300x300	6		A/Lgl/B		200	18x19x8.5		S/P	$1,900
Hewlett-Packard Company 415 857-1501												
HP LaserJet 2000A		20	300x300	34	Y	A/Lgl/A4	1.5M	500	53.4x48.8x25	70K	S/P	$19,995
HP LaserJet 2000D		20	300x300	34	Y	A/Lgl/A4		2500	56.55x48.8x25	70K	S/P	$25,695
HP LaserJet 2000P		20	300x300	34	Y	A/Lgl/A4		2500	56.35x48.8x25	70K	S/P	$21,995
HP LaserJet IID		8	300x300	24	Y	A/Lgl/A4	640K	400	18 x12.3 x 25		S/P	$4,295
LaserJet Series II		8	300x300	6	32	A/Lgl/A4	512K	200	18x8.5x27	12K	S/P	$2,695
InterScience Computer Services 818 707-2000												
LR 1200		12	300x300	10		A/Lgl			18.9x12.6x19.4		S/P	
LR 2600		26	300x300	6		A/Lgl/B			26.7x16.1x23.4		S/P	
Kentek Information Systems 201 825-8500												
K-2		12	240x240	30	Y	A/A4	1024	700	26.6x14.6x20	24K	S/P	$8,235
K-2+		15	300x300	30	Y	A/A4	1024	700	26.6x14.6x20	40K	S/P	$8,970
K-3		24	300x300	30	Y	A/A4	1024	700	26.6x14.6x20	80K	S/P	
K-4		24	300x300	30	Y	A/A4	1024	700	26.6x14.6x20	80K	S/P	
Kyocera Unison, Inc. 415 848-6680												
F1000A		18	300x300	79		A/Lgl		250	16.9x12.6x17.7		S/P	
F1010		10				A/Lgl		250			S/P	$3,695
F2010		10				A/Lgl		500			S/P	$4,695
F3010		18	300x300	79		A/Lgl		500	18.5x14.3x18.3		S/P	
Linotype Company 516 434-2016												
Linotronic 100	Y		1270x1270	13	Y						S/P	$35,000
Linotronic 300	Y		2540x2540		Y						S/P	$75,000
MacDonald Dettwiler & Assoc. 604-278-3411												
Fire 240												
GeoFire												
Mitek Systems Corporation 214 490-4090												
120T		8	300x300		16	A/Lgl		200	24.5x18x10	5K		
125T		8	300x300		16	A/Lgl		200	24.5x18x10	5K		
150T		15	300x300			A/Lgl		500	24.5x18x10	25K		
NBS Southern, Inc. 800 327-5602												
NBS 3840		40	300x300	57	Y	A/Lgl/B	8M	1750	39.6x25.6x29.5	200K	S/P	$39,950
NBS 3840D		40	300x300	57	Y	A/Lgl/B	8M	1750	43x39.9x25.6	200K	S	$54,950
NEC Information Systems, Inc. 508 264-8000												
LC860 PLUS		8	300x300	4	Y	A/Lgl	1.3M	500	18.5x10.9x20.7	5K	S/P	$3,415
SilentWriter LC890	Y	8	300x300	35	Y	A/Lgl	3M	500	18.5x10.9x20.7	5K	S/P	$4,975
NewGen Systems Corporation 714 641-8600												
Turbo PS/300	Y	8	300x300	35	Y	A/Lgl	2M	200	18x8.5x19	5K	S/P	$5,495
Turbo PS/400	Y	8	400x400	35	Y	A/Lgl	3M	200	18x8.5x19	5K	S/P	$6,495
Nissei Sangyo America, Ltd. 619 485-8552												
LB 040		40	300x300	130	Y	A/Lgl/B	4M	1750	29.5x39.25x25.7	200K	S/P	
LB 040		40	240x240	200	Y	A/Lgl/B	4M	1750	29.5x39.25x25.7	200K	S/P	
Nissho Electronics Corporation 714 261-8811												
LN-2248	Y	22	480x480		Y	A/Lgl/B	6M	500	29.24x26x16.8	60K	S	$24,000
Office Automaton Systems Inc. 619 452-9400												
LaserPro 1510		15	300x300	27	Y	A	768K	250	21.5x16.5x26	25K	S/P	$6,495
LaserPro 2200	N	22	300x300	25	Y	A/Lgl/B	1.5M	250	16.2x12.2x15.5		S/P	$1,550

LASER PRINTERS

Model	Postscript	Printing Speed (ppm)	Resolution (dpi)	Resident Fonts	Downloadable Fonts	Paper Size	RAM (Bytes)	Paper Input Capacity	Dimensions (wxhxd)	Monthly Duty Cycle (pages)	Serial/Parallel	Price
Office Automaton Systems Inc. 619 452-9400 (continued)												
LaserPro 5215	N	15	300x300		Y	A	768K	250	26x21.5x16.5	25K	S/P	
LaserPro 5287	N	8	300x300		Y	A/Lgl	1.5M	250	16.2x12.2x15.5	5K	S/P	
LaserPro 810	N	8	300x300	27	Y	A	768K	250	24.25x13x17	10K	S/P	$3,995
LaserPro Gold Express	N	8	300x300	33	Y	A/Lgl	2.5M	250	16.2x12.2x15.5	5K	S/P	$3,695
LaserPro Series II	N	8	300x300	27	Y	A/Lgl	1M	250	16.2x12.2x15.5	5K	S/P	$2,495
LaserPro Silver Express	N	8	300x300	27	Y	A/Lgl	1.5M	250	16.2x12.2x15.5	5K	S/P	$2,995
Panasonic 201 392-4406												
KX-P4450		11	300x300	4		A	512K	500	28x14.5x17	5K	S/P	
Printer Systems Corporation 301 258-5060												
Intelliprint 218	Y	18	300x300	Y	Y	A/Lgl/A4	3M	250	21x17x22	50K	S/P	$14,395
Intelliprint 222	Y	22	300x300	Y	Y	A/Lgl/B	6M	250	21x17x22	50K	S/P	
Printronix, Inc. 714 863-1900												
L1012		12	300x300	Y	Y	A/Lgl/A4	512K	250	12.5x18.9x17.3	25K	S/P	$3,495
Report Expeditor		24	300x300	72	48	A/Lgl		1200	26x14.5x18.5		S	$15,500
QMS, Inc. 205 633-4300												
2308/S Turbo		8	300x300	254	Y	A/Lgl/A4	6M	200	18.7x16.5x25	5K	S/P	$14,450
2308/S-2		8	300x300	8	Y	A/Lgl/A4	2M	200	18.7x16.5x25	5K	S/P	$9,250
2308/S-3		8	300x300	8	Y	A/Lgl/A4	3M	200	18.7x16.5x25	5K	S/P	$9,750
3308/S	N	8	300x300	8	Y	A/Lgl/A4	3M	400	18.7x21.5x25	3.3K	S/P	$10,950
3308/S Turbo	N	8	300x300	254	Y	A/Lgl/A4	6M	400	18.7x21.5x25	10K	S/P	$15,450
3320 Turbo	N	20	300x300	254	Y	A/Lgl/A4	6M	500	42x54x24	35K	S/P	$26,450
3320-3		20	300x300	8	Y	A/Lgl/B	3M	500	42x54x24	35K	S/P	$22,950
5320 Turbo	N	20	300x300	254	Y	A/Lgl/A4	6M	2500	55x63x24	3.3K	S/P	$32,450
5320-3	N	20	300x300	8	Y	A/Lgl/B	3M	2500	63x55x24	35K	S/P	$28,950
6320 Turbo	N	20	300x300	254	Y	A/Lgl/A4	6M	2500	63x55x24	35K	S/P	$36,450
6320-3	N	20	300x300	8	Y	A/Lgl/B	3M	2500	63x55x24	35K	S/P	$32,950
7320 Turbo	N	20	300x300	254	Y	A/Lgl/A4	6M	2500	56x45x24	3.3K	S/P	$39,450
7320-3		20	300x300	8	Y	A/Lgl/B	3M	2500	56x45x24	35K	S/P	$35,950
Big KISS II		8	300x300	17	Y	A/Lgl/A4	640K	500	18.7x18.1x19.5	10K	S/P	$4,495
Big KISS II M		8	300x300	17	Y	A/Lgl/A4	1.125M	500	18.7x18.1x19.5	10K	S/P	$4,995
KISSPlus		8	300x300	34	Y	A/Lgl/A4	512K	200	18x9.1x25	5K	S/P	$2,690
KISSPlus		8	300x300	34	Y	A/Lgl/A4	1M	200	18x9.1x25	5K	S/P	$2,990
KISSPlus		8	300x300	34	Y	A/Lgl/A4	2.5M	200	18x9.1x25	5K	S/P	$3,790
KISSPlus		8	300x300	42	Y	A/Lgl/A4	2.5M	200	18x9.1x25	5K	S/P	$4,190
QMS LASERGRAFIX 1510		15	300x300	36	Y	A/Lgl/A4	6M	500	21.5x16x24	15K	S/P	$11,995
QMS LASERGRAFIX 2200		22	300x300	36	Y	A/Lgl/A4	7M	600	20x18x21	20K	S/P	$15,995
QMS LASERGRAFIX 800		8	300x300	36	Y	A/Lgl/A4	2M	100	19x16x21	5K	S/P	$6,495
QMS LASERGRAFIX 800 II		8	300x300	36	Y	A/Lgl/A4	2M	500	19x23x21	10K	S/P	$7,995
QMS-PS 1500	Y	15	300x300	35	Y	A/Lgl/A4	4M	500	21.5x16x24	15K	S/P	$7,995
QMS-PS 2200	Y	22	300x300	35	Y	A/Lgl/A4	4M	600	20x18x21	20K	S/P	$12,995
QMS-PS 800 II	Y	8	300x300	35	Y	A/Lgl/A4	2M	500	18.7x18.1x19.5	10K	S/P	$5,995
QMS-PS 810	Y	8	300x300	35	Y	A/Lgl/A4	2M	200	18x9.1x25	5K	S	$4,995
QMS-PS 820	Y	8	300x300	35	Y	A/Lgl/A4	2M	400	19.4x17.9x12.3	10K	S/P	$6,495
SmartWriter 150		15	300x300	22	Y	A/Lgl/A4	2.5M	500	18.7x11.4x16.3	15K	S/P	$6,995
SmartWriter 150	N	15	300x300	19	Y	A/Lgl/A4	2.5M	500	21.5x16x24	15K	S/P	$6,995
SmartWriter 150	N	15	300x300	40	Y	A/Lgl/A4	2.5M	500	21.5x16x24	15K	S/P	$6,995



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LASER PRINTERS

Model	Postscript	Printing Speed (ppm)	Resolution (dpi)	Resident Fonts	Downloadable Fonts	Paper Size	RAM (Bytes)	Paper Input Capacity	Dimensions (wxhxd)	Monthly Duty Cycle (pages)	Serial/Parallel	Price
Qume Corporation 408 942-4000												
Laser TENPLUS	Y	10	300x300	33	*	A/Lgl			20x15x17.4	5K	S/P	$3,395
ScripTEN	Y	10	300x300	35	*	A/Lgl	3M		20x15x17.4	5K	S/P	$5,295
Ricoh Corporation 714 863-0550												
LP 4150		15	300x300						16.5x21.5x18.5			$5,000+
PC Laser 6000		6	300x300						7.9x16.1x16.5			$2,395
Summus Computer Systems 713 492-6611												
SUM-8 II		8	300x300		Y	A/B	512K	200	12x12x8	5K	S	$1,895
Talaris Systems Inc. 619 587-0787												
1590 Printstation		15	300x300	43	Y	A	3M	500	21.25x16.33x18.5	25K	S/P	$8,490
1590-T Prinstation	*	15	300x300	43	Y	A	5.5M	500	21.25x16.33x18.5	25K	S/P	$11,490
2492-B Printstation	*	24	300x300	43	Y	A/B	5.5M	2000	36 x 41 x 28	35K	S	$24,990
T811/2		8	300x300	15	Y	A/Lgl*	1M	200	18x9.1x25	5K	S/P	$2,950
The Holoscan Corporation 201 549-9000												
Holoscan 28		28	300x300	*		A/Lgl/B			26x36x24	50K	S/P	
Holoscan 28		28	300x300		Y	A/Lgl/B			26x36x24	50K	S/P	
Holoscan 28		20	300x300			A/Lgl/B			26x36x24	50K	S/P	
The Laser Connection 800 523-2696												
PS Jet	Y	8	300x300	13		A/Lgl					S/P	
PS Jet+	Y	8	300x300	35		A/Lgl	2M	1000	18.7x11.4x16.3		S/P	$5,495
Varityper 201 887-8000												
4300	Y	10	2400x2400	25	Y	70 pica	2M		29x56x48		S/P	$49,995
VT-600Plus	Y	10	600x600	13	*	A/Lgl	6M	250	23x18.5x21.1	10K	S/P	$16,995
VT-600W	Y	10	600x600	35	*	A/Lgl/B	6M	250	23x18.5x21.1	10K	S/P	$22,995
Xerox 213 536-7000												
3700		24	300x300	2	Y	A/Lgl/B		2000	39.9x46.5x27.5		S/P	
4045 Laser CP-150		10	300x300	2	Y	A/Lgl	1M	250	27.5x10.5x21.5		S/P	
4045 Laser CP-50		10	300x300	2	Y	A/Lgl	512K*	250	27.5x10.5x21.5		S	

MAGNETOGRAPHY PRINTERS

Model	Non-Impact	Color	Resolution (Bits)	Printing Speed (ppm)	Paper Type	Dimensions (wxhxd)	Graphics Support	LEDs	Maximum Paper Width	Serial/Parallel	Warranty	Price
Bull Peripherals Corporation 617 890-5200												
MP 6060	Y	N	240x240	60	C	64x45x30	N	Y	15.75"	DP/P	90 d	$81,851
MP 6090	Y	N	240x240	90	C	64x45x30	N	Y	15.75"	DP/P		$103,314
Image Graphics, Inc. 203 926-0100												
EBR 2000		Y										$350,000

MISCELLANEOUS PRINTERS

Model	Impact	Non-Impact	Resolution (dpi)	Printing Speed (ppm)	Paper Type	Printing Technology	Dimensions (wxhxd)	Paper Size	Warranty	Price
AMF GeoSpace Corporation 713-666-1611										
GS6412			192x192			Drum				
Constantine Engineering Labs 201 327-1123										
5000A						35mm SlideMaker				
5000B						35mm SlideMaker				
8000A						35mm SlideMaker				
8000B						35mm SlideMaker				
DataProducts Corporation 818 887-8000										
SI 400	Y			400 cps	S	Solid Ink	24.2x8.5x17.7	A		
Eastman Kodak 800 255-3434										
1392		Y	300x300	92 ipm	S	Electrophotograph	31x58x41	A/Lgl	90 d	$200,000
MacDonald Dettwiler & Assoc. 604-278-3411										
ColorFire 240						Drum				
Optronics, Inc. 617-256-4511										
P1500						Drum				
Tektronix, Inc. 503 627-7111										
4693D		Y	300x300	1 ppm	S/T	Thermal-wax	21.8x12.6x21.2	A/Lgl		$7,995
4693DS		Y	300x300	1 ppm	S/T	Thermal-wax	21.8x12.6x21.2	A/Lgl	90 d	$12,995

PEN PLOTTERS

Model	# of Pens	Pen Velocity (ips)	Graphics Language	Paper Type	LEDs	Paper Size	Buffer Size (Bytes)	Controller Included	Dimensions (wxhxd)	Serial/Parallel	Price
Bruning Computer Graphics 415 372-7568											
Zeta 5400	4	35	GML/HP-GL	C	Y	up to 52"	18K	N	73x47x27	S	$44,900+
Zeta 912	8	30	GML/HP-GL	C	Y	A/B	18K	Y	24x10x12	S	$3,950
Zeta 924PS	8	30	GML/HP-GL	C/S	Y	A-D	18K	Y	36x44x23	S	$6,700
Zeta 936PS	8	30	GML/HP-GL	C	Y	A-E	18K	Y	48x44x23	S	$8,700
Zeta 987	8	30	GML/HP-GL	C	Y	A/B	18K	Y	24x10x12	S	$4,950
Zetadraf 900	8	45	GML/HP-GL	S	Y	A-E	40K	N	60x47x27	S	$7,950
CalComp, Inc. 714 821-2100											
1043GT	8	24	PCI/CP-GL	S/R	Y	A-E/A4-A0	2K		54x47x22	S	$7,995
1044GT	8	24	PCI	S/R	Y	A-E/A4-A0	2K		54x47x22	S	$11,900
1076C	4	50	PCI	S	Y				57.3x60.5x29.5	S	$17,995
1077	4	50	PCI	S/R	Y				57.3x60.5x29.5	S	$26,995
Artisan 1023	8	30	PCI/CP-GL	S	Y	A-D	100K		37.5x42.5x21	S	$4,895
Artisan 1025	8	30	PCI/CP-GL	S	Y	A-D	100K		48.8x49.5x30	S	$6,395
Hewlett-Packard Company 415 857-1501											
7440A	8	15.7	HP-GL	S/T	Y	A	1024		18.1x4.9x12.1	S	$1,295
7475A	6	15	HP-GL	S/T/F	Y	A/B	1024		22.4x5x14.5	S	$1,895
7550A	8	31.5	HP-GL	S/T/F	Y	A/B	1024		26.4x8.5x35.3	S	$3,900
7570A	8	15.7	HP-GL	S/F	Y	C/D	7448		44.9x40.6x20.5	S	$5,400
7595A	8	24	HP-GL	S/F/T	Y	A/B	25K		134.6x120x40.8	S	$9,900
7596A	8	24	HP-GL	S/R/T	Y	A/B	25K		134.6x120x40.8	S	$11,900

PEN PLOTTERS

Model	# of Pens	Pen Velocity (ips)	Graphics Language	Paper Type	LEDs	Paper Size	Buffer Size (Bytes)	Controller Included	Dimensions (wxhxd)	Serial/Parallel	Price
Houston Instrument 512 835-0900											
DMP-61	6	45	HP-GL	CS/F		A-D	16K		41x42x24	S	
DMP-62	6	33	HP-GL	S/F		A-D	16K		52x51x27	S	
Ioline Corporation 206 821-2140											
LP3700	1	10	HP-GL/DM/PL		Y	1.5x37-81	14K		48.95x8.75x9.7	S	$4,195
LP3700-MP	1	10	HP-GL/DM/PL		Y	1.5x37-81	14K		48.95x8.75x9.7	S	$4,695
LP4000	1	20	HP-GL/DM/PL		Y	1.5x37-81	4K		48.95x8.75x9.7	S	$5,495
LP4000-MP	1	20	HP-GL/DM/PL		Y	1.5x37-81	4K		48.95x8.75x9.7	S	$5,995
Numonics Corporation 215 362-2766											
5460	1	7.7	HP-GL		Y	C-D	60K			S/P	$2,495
5860	8	7.7	HP-GL	C		C/D	60K			S/P	$3,195
7191	8	35	HP-GL			A/E	500K		9.4x49.2x47.2	S	$5,995
Schlumberger Graphics 800 545-5445											
1824	8	33	HP-GL	F		24.8 x 39.3	100K	Y	48.4x40.8x23.6	S	$4,790
1825	8	33	HP-GL	F		36.6 x 51.1	100K	Y	60.2x47.8x31.9	S	$6,290
1834-SR	8	47	HP-GL	F		25.2 x63.5	512K	Y	48.6x45.5x20.1	S	$6,890
1835-SR	8	47	HP-GL	F		37x63.5	512K	Y	60.4x51.1x20.1	S	$8,890
Tektronix, Inc. 503 627-7111											
HC100	4	9		S	Y	A			16.5x3.2x10.8	P	
Western Graphtec 800 624-8396											
FP5301	10	18	GP-GL	R	Y	11.2x15.7			19.6x5.8x20.7	S/P	$3,290
MP3100	8	15.7	GP-GL/HP-GL	S	Y	A/B	5K	N	22.6x4.1x17.9	S/P	$1,195
MP3200	8	15.7	GP-GL/HP-GL	S	Y	A/B	5K	N	22.6x4.1x17.9	S/P	$1,575
MP3300	8	15.7	GP-GL/HP-GL	S	Y	A/B	24K	N	22.6x4.1x17.9	S/P	$1,895
PD9011	4	18	GP-GL/HP-GL	S	Y	A-E	256K*	N	52.4x47.2x17.3	S/P	$8,950
PD9111	4	18	GP-GL	S	Y	A-D	256K*		43.4x48x19.6	S/P	$5,995
PD9311F	4	18	GP-GL/HP-GL	S	Y	A/B	6K	N		S/P	$3,295
WX4731	4	8		R		39'	1.6K	N	22x6x11.3	S	$3,750

THERMAL TRANSFER PRINTERS

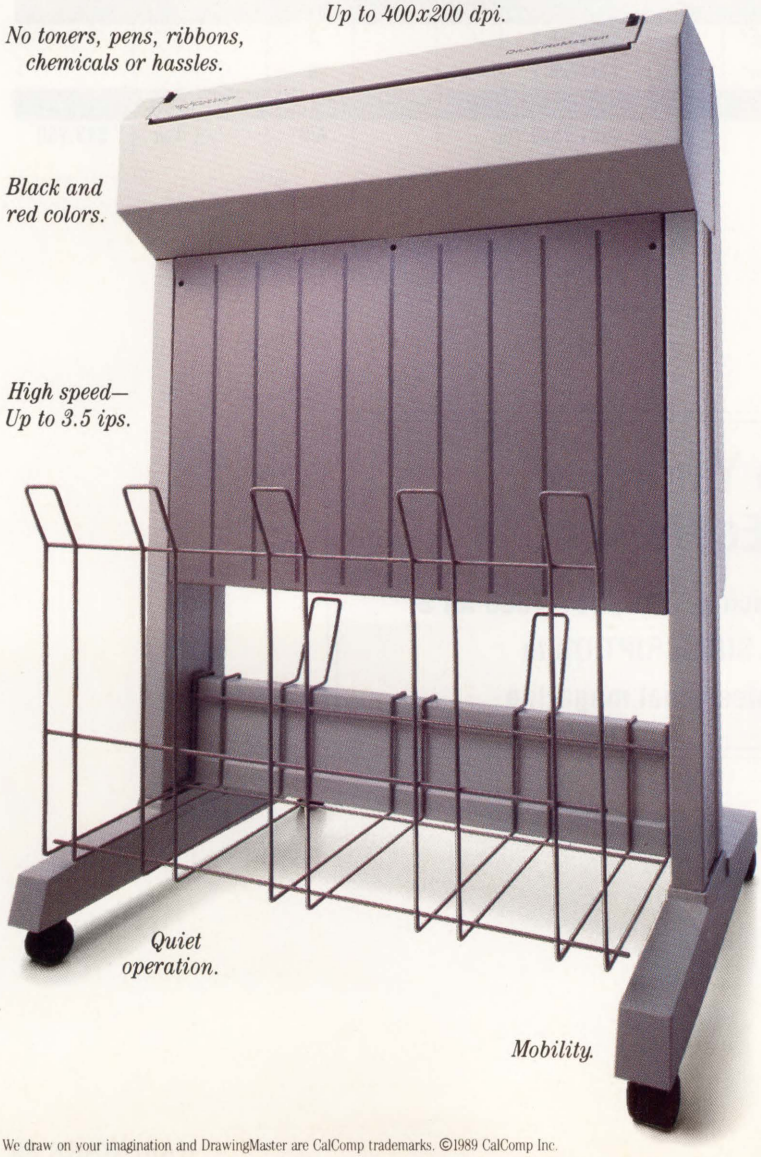
Model	Non-Impact	Graphics Support	Resolution (dpi)	Color Palette	Buffer Size (Bytes)	Dimensions (wxhxd)	Resident Fonts	Downloadable Fonts	Paper Size	Serial/Parallel	Warranty	Price
CalComp, Inc. 714 821-2100												
903	Y	Y	1280x1024	7		24.8x8.4x22.5			A/B	S/P		$8,995
ColorMaster	Y	Y	200x203.2	7	512K	17x12x20			A	S/P		$4,795
ColorView 5612	Y	Y	200x203.2	7		24.8x8.4x22.5			A/B	S/P		$8,395
ColorView 5612VS	Y	Y	200x203.2	7		24.8x8.4x22.5			A/B	S/P		$11,995
ColorView 5613	Y	Y	300x300	7					A/B	S/P		$9,495
ColorView 5613 VS	Y	Y	300x300	7					A/B	S/P		$12,995
ColorView 5912	Y	Y	200x203.2	7	3.5M	24.8x8.4x22.5			A/B	S/P		$10,495
ColorView 5912VS	Y	Y	200x203.2	7	3.5M	24.8x8.4x22.5			A/B	S/P		$15,995
ColorView 5913	Y	Y	300x300	7	10M				A/B	S/P		$13,995

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THERMAL TRANSFER PRINTERS

Model	Non-Impact	Graphics Support	Resolution (dpi)	Color Palette	Buffer Size (Bytes)	Dimensions (wxhxd)	Resident Fonts	Downloadable Fonts	Paper Size	Serial/Parallel	Warranty	Price
CalComp, Inc. 714 821-2100 (continued)												
ColorView 5913 VS	Y	Y	300x300	7	10M				A/B	S/P		$17,495
PlotMaster	Y	Y	200x203.2	7	1.5M	17x12x20			A	S/P		$5,295
Fargo Electronics, Inc. 612 941-9470												
Prodigy		Y	203x203			10x10x17				S		$2,495
Lasergraphics, Inc. 714 660 9497												
Rascol III/CPS	Y	Y	203x200	1m		20x12x17	8		A/Lgl	S/P	1 yr	$9,950
QMS, Inc. 205 633-4300												
ColorScript 100	Y	Y	300x300	4	N/A	20.9x14.2x19.7	35	Y	A/A4/B	P	90 d	$15,995
ColorScript 100	Y	Y	300x300	4	N/A	20.9x23.6x22.2	35	Y	A/A4/B	S	90 d	$19,995
QMS Colorgraphix 100	Y	Y	300x300	4	N/A	20.9x23.6x22.2	48	Y	A/A4/B	S	90 d	$13,995
RDK, Inc. 512 832-5464												
RY-T001	Y	Y	200x200		8M	43x37.9x18.9				S/P	1 yr	$14,995
Schlumberger Graphics 800 545-5445												
5232-Color PS	Y		300x300	2048	8M		35		A/B	S/P	90 d	$19,900
Seiko Instruments 408 922-5950												
CH-5504	Y		300x300	16m*		14x17x8.1			A			
CH-5514	Y		300x300	16m*		17x17x8.1			A			
TOYO Spectrum Corporation 408 739-7913												
TPG-4300	Y	N	300x300			21.5x21.75x9.75			A/B		1 yr	$13,750

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■ **VX036**
1500lpm • 132 Standard Characters • 15" Maximum Paper Width • $24,000+

■ **VX037**
2000lpm • 132 Standard Characters • 15" Maximum Paper Width • $24,000+
The VX036 and VX037 line printers offer 1500lpm and 2000lpm printing capabilities that are compatible with the "2P" printer family. May be connected to any DEC system.

■ **VX157**
600lpm • 132 Standard Characters • 250 Compressed Characters • 14" Maximum Paper Width • $7,995

■ **VX159**
900lpm • 132 Standard Characters • 250 Compressed Characters • 14" Maximum Paper Width • $7,995
The VX157 and VX159 offer "LG" compatibility. Graphics and bar codes are additional capabilities.

DataProducts Corporation

■ **B 1000**
1025lpm • 132 Standard Characters • • 16" Maximum Paper Width • $14,395
Equipped with a 60dBA acoustic cabinet.

■ **B 300**
300lpm • 64 Standard Characters • 16" Maximum Paper Width • $7,205

■ **B 600**
650lpm • 64 Standard Characters • 16" Maximum Paper Width • $9,815
The B Series printers are available with over 250 character sets as well as 60dBA acoustic cabinets.

■ **BP 1500**
1500lpm • 48 Standard Characters • 18.75" Maximum Paper Width • $22,700

■ **BP 2000**
2000lpm • 48 Standard Characters • 18.75" Maximum Paper Width • $30,390
The BP 1500 and 2000 feature a towel ribbon system with swing out band gates for ease of paper handling. Designed for extremely high duty cycle operations for high volume applications.

■ **LB 1015**
1010lpm • 64 Standard Characters • 16" Maximum Paper Width • $10,995
Features a four tractor paper handing system, reel-to-reel ribbon and a 55dBA fully enclosed acoustic cabinet with paper puller.

■ **LB 1515**
1210lpm • 64 Standard Characters • 16" Maximum Paper Width • $14,995
Produces 1500lpm with a 48 character set. Features a heavy duty cycle, four tractor paper handling system, reel-to-reel ribbons, and an acoustic cabinet with paper puller.

■ **LB 300**
325lpm • 64 Standard Characters • 16" Maximum Paper Width • $5,695

■ **LB 315**
325lpm • 64 Standard Characters • 16" Maximum Paper Width • $6,636
The LB 300 and 315 are equipped with a selectable triple interface. Feature a four tractor paper handling system, reel-to-reel long life ribbons, universal power supply, over 150 character sets, and a printer pedestal. Cabinets available.

■ **LB 615**
650lpm • 64 Standard Characters • 16" Maximum Paper Width • $7,495
Offers the same features as the LB 315 with the added advantages of dual print speed modes and twice the print throughput. Acoustic cabinet standard.

■ **LM 1200**
1200lpm • 18" Maximum Paper Width • $27,595
Built for heavy duty cycle, high volume applications. Features 1200lpm line matrix printing in a fully enclosed 65dBA acoustic cabinet.

■ **LM 300**
300lpm • 136 Standard Characters • 16.75" Maximum Paper Width • $5,795

■ **LM 600**
600lpm • 16.75" Maximum Paper Width • $7,895
The LM 300 and 600 are available with several different character sets and 55dBA acoustic cabinets. Ideal for bar code and graphic requirements.

■ **LM 900**
900lpm • 18" Maximum Paper Width • $21,595
Built for heavy duty cycle, high volume applications. Features 900lpm line matrix printing in a fully enclosed 65dBA acoustic cabinet.

DeRex Inc.

■ **9000-IV**
1700lpm • 48-96 Standard Characters • 18" Maximum Paper Width • $26,950
Excellent LP29 alternative that features power forms stacker, towel ribbon, swing out gate, built-in vacuum, and rear and front control panels, and prints up to six-part forms.

■ **B1000**
1000lpm • 48-96 Standard Characters • 16" Maximum Paper Width • $13,250
Field proven band printer that features a quietized cabinet, cassette ribbon, and a built-in paper puller.

■ **B1500**
1500lpm • 48-96 Standard Characters • 18.75" Maximum Paper Width • $22,000
Field proven, high performance band printer that features LP27 compatibility, long life towel ribbon, quietized cabinet, dual tractors, and a paper puller.

■ **B2000**
2000lpm • 48-96 Standard Characters • 18.75" Maximum Paper Width • $29,950
The B2000 is an LP29 compatible heavy duty band printer.

■ **B300**
300lpm • 48-96 Standard Characters • 16" Maximum Paper Width • $6,375
The B300 is a field proven band printer that features LP25 compatibility.

■ **LW1000**
1200lpm • 48-96 Standard Characters • 18" Maximum Paper Width • $9,950
High performance, field proven band printer that features a quietized cabinet, long life ribbon, built-in paper puller, and front and rear control panels.

■ **LW400**
400lpm • 48-96 Standard Characters • 18" Maximum Paper Width • $4,995
Features excellent print quality, field proven band technology, 6/8 LPI, form length select switch, full operator panel, and cassette ribbon.

■ **LW800**
800lpm • 48-96 Standard Characters • 18" Maximum Paper Width • $6,995
Field proven band printer that features 62dBA, 6/8 LPI, 10 cpi, FLSS, a cassette ribbon, and excellent print quality.

First Computer Corporation

■ **ULW400**
64 Standard Characters • 128 Compressed Characters • $7,260

Genicom Corporation

■ **4285**
2000lpm • 132 Standard Characters • 18" Maximum Paper Width • $26,950
The 4285 features an integral power stacker, a sound pressure level of <60dBA, a 2.5 million line ribbon life, a rear control panel, and a universal power supply.

■ **E Series Model III**
1600lpm • 48 Standard Characters • 132 Compressed Characters • 16.25" Maximum Paper Width • $18,950
The E Series Model III features an acoustic level of <65dBA and a two million line ribbon life, and is available with an optional power stacker.

■ **Linewriter 1255**
1200lpm • 64 Standard Characters • 132 Compressed Characters • 18" Maximum Paper Width • $11,595
Features a sound pressure level of <55dBA, a ribbon cassette life of 600K lines, and standard casters. No preventive maintenance required.

■ **Linewriter 400**
400lpm • 132 Standard Characters • 198 Compressed Characters • 18" Maximum Paper Width • $6,096
Features a ribbon cassette life of 600K lines and a sound pressure level of <62dBA. No preventive maintenance required.

■ **Linewriter 455**
400lpm • 132 Standard Characters • 198 Compressed Characters • 18" Maximum Paper Width • $6,913
Features a ribbon cassette life of 600K lines and a sound pressure level of <55dBA. No preventive maintenance required.

■ **Linewriter 800**
720lpm • 132 Standard Characters • 18" Maximum Paper Width • $7,490
Features a ribbon cassette life of 600K lines and a sound pressure level of <62dBA. No prevenitive maintenance required.

■ **Linewriter 855**
720lpm • 132 Standard Characters • 18" Maximum Paper Width • $8,307
Features a ribbon cassette life of 600K lines and a sound pressure level of <55dBA. No preventive maintenance required.

Hetra, Inc.

3115-12
1210lpm • 136 Standard Characters • 16" Maximum Paper Width

3115-3
300lpm • 136 Standard Characters • 16" Maximum Paper Width

3115-6
650lpm • 136 Standard Characters • 16" Maximum Paper Width

3300-H0
1000lpm • 132 Standard Characters • 19" Maximum Paper Width • $17,500

3300-H12
1200lpm • 132 Standard Characters • 19" Maximum Paper Width • $20,500

3300-H6
600lpm • 132 Standard Characters • 19" Maximum Paper Width • $14,500

533-0
1000lpm • 132 Standard Characters • 19" Maximum Paper Width • $21,500

■ **533-12**
1200lpm • 132 Standard Characters • 19" Maximum Paper Width • $24,500
The above models feature a yoke assembly print mechanism and are double hinged for stability, providing constant accurate alignment.

■ **533-6**
600lpm • 132 Standard Characters • 19" Maximum Paper Width • $18,500
The 533-6 is available with bisynchronous half duplex and full duplex bit oriented protocols such as SDLC, CCITT, X.25, and ADCCP. In addition, complete job flow control is maintained by the operator via the extensive command switch/indicator panel.

InterScience Computer Services

■ **ICS 1000**
1100lpm • 96 Compressed Characters • 16" Maximum Paper Width

■ **ICS 1500**
1250lpm • 96 Compressed Characters • 18.75" Maximum Paper Width • $20,031

■ **ICS 2000**
1680lpm • 96 Compressed Characters • 18.75" Maximum Paper Width • $25,431
The 1000, 1500 and 2000 printers feature switch-selectable 80 or 132 column output, providing quality print and reliability within high volume applications.

■ **ICS 300**
150lpm • 16.75" Maximum Paper Width

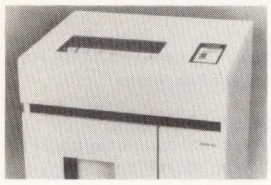
■ **ICS 315**
150lpm • 16.75" Maximum Paper Width

■ **ICS 600**
300lpm • 16.75" Maximum Paper Width

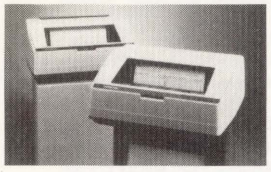
■ **ICS 615**
300lpm • 16.75" Maximum Paper Width
The 300, 315, 600, and 615 combine the high throughput of line printers and the

Speed Of A Band, Flexibility Of A Matrix.

PRINTRONIX®



High Speed P9012
Matrix Line Printer



Compact P3040
Matrix Line Printer

- P9012: Up to 1200 LPM at 55 dBA for less than half the cost of a DEC LP27.®
- P3040: Price/Performance leader in 400 LPM class.
- Select standard or optional 55 dBA configuration.
- Multi-mode printing and character-by-character attributing for text, graphics, electronic forms and bar code label printing.
- Excellent print quality on up to six-part forms.
- Three resident interfaces: Centronics® parallel, Dataproducts® parallel and RS-232C serial.
- Intelligent Graphics Processor (IGP™) option for bar code label and forms generation.
- MESA's Printronix sales area is limited to New England, NJ, PA, DE, MD, VA, DC.

The following are registered trademarks of their respective companies: Centronics of Centronics Data Computer Corporation; Dataproducts of Dataproducts Corporation; DEC of Digital Equipment Corporation.

MESA
TECHNOLOGY CORPORATION

9720 Patuxent Woods Dr. Columbia, MD 21046

Columbia, MD	*Lowell, MA*	*Milford, CT*
800/950-6372	800/999-6780	800/777-0984
301/290-8150	508/458-4100	203/878-6800
Morris Plains, NJ	*Philadelphia, PA*	*Charlotte, NC*
800/444-9238	800/333-8641	800/777-2340
201/538-8004	215/644-3100	704/529-1792
Springfield, MA	*Burlington, VT*	
800/999-6780	800/999-6780	
Raleigh, NC	*Richmond, VA*	
800/777-2340	800/777-2340	

An Electrocomponents Company

flexibility of dot matrix printers, and are able to generate raster graphics, and popular bar codes.

■ **LM1200**
320lpm • 18" Maximum Paper Width

■ **LM900**
480lpm • 18" Maximum Paper Width

Nissei Sangyo America, Ltd.

■ **FP 1500-HA**
1500lpm • 48 Standard Characters • 17" Maximum Paper Width
Features a triple interface board and plug compatibility with most systems. Consistent OCRR scannable print quality. Manufactured by Hitachi Koki and marketed by Nissei Sangyo America, Ltd.

■ **FP 1500A**
1500lpm • 48 Standard Characters • 17" Maximum Paper Width

■ **FP 2000A**
2000lpm • 48 Standard Characters • 17" Maximum Paper Width
The 1500A and 2000A feature a standard universal power supply, automatic band recognition, extensive internal diagnostics, and field upgradability to higher speed models. Manufactured by Hitachi Koki and marketed by Nissei Sangyo America, Ltd.

■ **FP 2000A-HA**
2000lpm • 48 Standard Characters • 17" Maximum Paper Width

■ **UP 1000A**
1000lpm • 48 Standard Characters • 16" Maximum Paper Width

■ **UP 400A**
430lpm • 48 Standard Characters • 16" Maximum Paper Width

■ **UP 700A**
700lpm • 48 Standard Characters • 12 Compressed Characters • 16" Maximum Paper Width
The FP 2000A-HA, UP 1000A, UP 400A, and UP 700A feature a triple interface board, plug compatible with most systems. Consistent OCRR scannable print quality. Manufactured by Hitachi Koki and marketed by Nissei Sangyo America, Ltd.

Synergy Printer Systems

■ **FB1200**
1200lpm • 64 Standard Characters • 96 Compressed Characters • 17" Maximum Paper Width • $15,950

■ **FB300**
300lpm • 64 Standard Characters • 96 Compressed Characters • 17" Maximum Paper Width

■ **FB600**
600lpm • 64 Standard Characters • 96 Compressed Characters • 17" Maximum Paper Width • $6,950

■ **FB900**
900lpm • 64 Standard Characters • 96 Compressed Characters • 17" Maximum Paper Width • $10,950
The FB Series features VLSI components with fewer electronic parts and fewer circuit boards, and heavy-duty print hammers, providing uniform print density and quality.

Daisy Wheel Printers

Data Terminal Mart

■ **130**
50cps NLQ Printing Speed • $1,995

■ **40**
40cps NLQ Printing Speed • $1,645

■ **55**
55cps NLQ Printing Speed • $1,945

■ **90**
90cps NLQ Printing Speed • $2,345

■ **90WT**
90cps NLQ Printing Speed • $3,195

Panasonic

■ **KX-P3131**
17cps NLQ Printing Speed • 13.5" Maximum Paper Width
Features word processing functions, auto paper loading, and bidirectional printing with logic seeking. Also available with an optional friction feeder, tractor, or auto cut sheet feeder.

■ **KX-P3151**
22cps NLQ Printing Speed • 68 Standard Characters • 15.5" Maximum Paper Width
Offers word processing functions, auto paper loading, bidirectional printing with logic seeking, and an optional friction feeder, tractor, or auto cut sheet feeder.

Primages, Inc.

■ **90-GT**
90cps NLQ Printing Speed • 135 Standard Characters • 202 Compressed Characters • 16.5" Maximum Paper Width • $1,295
Also available with a tractor feed at $1,590, a Pagemate I single output bin at $1,690, a Pagemate III triple paper output bin at $2,090, and a JE-100 envelope only feeder at $2,090.

Dot Matrix Printers

Advanced Matrix Technology, Inc.

■ **AMT**
240x240dpi • 45cps NLQ Printing Speed
This model features word processing, data processing and graphics capabilities as well as two color ribbons to produce black, cyan, magenta, yellow, blue, red and green. Additional RAM for buffer expansion up to 40KB is an available option.

■ **AMT**
240x120dpi • 45cps NLQ Printing Speed • $1,845

■ **AMT**
240x120dpi • 45cps NLQ Printing Speed • $1,845

■ **AMT**
240x120dpi • 45cps NLQ Printing Speed • $1,845
The AMT Office Printer Plus is a versatile printer for applications from business correspondence to spreadsheets and modeling. It is also equipped with many built-in fonts. May be LQP02/3 compatible for an additional $1,645.

Alps America

■ **Allegro 24**
180x360dpi • 180cps Draft Printing Speed • 60cps NLQ Printing Speed • $499
The unique flatbed design gives jam-free paper handling. Paper parking feature allows users to switch from fan-fold to single sheet at the touch of a button. Buffer expandable to 32KB.

■ **ALQ224e**
360x180dpi • 240cps Draft Printing Speed • 80cps NLQ Printing Speed • $875
Paper parking allows switching between fan-fold and single sheet paper by touching a button. Features seven color printing and 9/18 pin emulation.

■ **ALQ324e**
360x180dpi • 240cps Draft Printing Speed • 80cps NLQ Printing Speed • $1,095
Paper parking allows switching between fan-fold and single sheet paper by touching a button. Also features seven color printing.

■ **ASP 1000**
60x240dpi • 120cps Draft Printing Speed • 24cps NLQ Printing Speed • $299
The ASP1000's concurrent paper handling mechanism prints single sheets without unloading and reloading fanfold paper.

■ **P2000**
240x214dpi • 250cps Draft Printing Speed • 50cps NLQ Printing Speed • $995
Features include high resolution graphics, multiple font cartridges, print buffer expandable to 64KB or 256KB.

■ **P2100**
240x214dpi • 400cps Draft Printing Speed • 80cps NLQ Printing Speed • $1,595
The P2100 offers a bit-image graphics mode with a resolution of 240x214dpi. It is also available with additional fonts and is upgradable to either 64KB or 256KB.

■ **P2100/DEC**
240x214dpi • 400cps Draft Printing Speed • 80cps NLQ Printing Speed • $1,595
This printer is compatible with all DEC equipment. Offers high resolution graphics with 64KB or 256KB buffer expansion options.

■ **P2400C**
360x180dpi • 360cps Draft Printing Speed • 120cps NLQ Printing Speed • $1,495
Printer made to handle word processing, large spreadsheets, detailed graphics, and long run invoices. Seven color printing.

Axonix Corporation

■ **ThinWrite 100**
240x240dpi • 100cps Draft Printing Speed • 25cps NLQ Printing Speed • $499
Six pound portable printer that features a multicopy function, character styles such as Italics and underlining, and sub- and superscript capabilities.

C.Itoh Electronics, Inc.

■ **9500D**
250cps Draft Printing Speed • 50cps NLQ Printing Speed • $749
The 9500DR features a narrow (10") carriage.

■ **9515D**
250cps Draft Printing Speed • 50cps NLQ Printing Speed • $949
The 9515DR features a wide (15") carriage.

■ **C310-P**
240x144dpi • 300cps Draft Printing Speed • 50cps NLQ Printing Speed
Features 8-bit parallel interface that enables the printer to plug into IBM-PC, XT, and AT compatibles, Compaq, AT&T, and Apple II Series.

■ **C310-R**
240x144dpi • 300cps Draft Printing Speed • 50cps NLQ Printing Speed
Features 8-bit serial interface that enables the printer to plug into IBM-PC, XT, and AT compatibles, Compaq, AT&T, and Apple II Series.

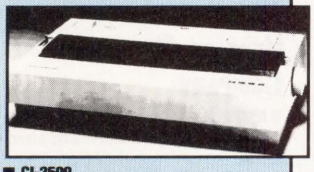
■ **C315-P**
240x144dpi • 300cps Draft Printing Speed • 50cps NLQ Printing Speed
Features 8-bit parallel interface that enables the printer to plug into IBM-PC, XT, and AT compatibles, Compaq, AT&T, and Apple II Series.

■ **C315-R**
240x144dpi • 300cps Draft Printing Speed • 50cps NLQ Printing Speed
Features 8-bit serial interface that enables the printer to plug into IBM-PC, XT, and AT compatibles, Compaq, AT&T, and Apple II Series.

■ **C610**
180x360dpi • 200cps Draft Printing Speed • 66cps NLQ Printing Speed • $799
Standard paper handling methods include friction feed, push tractor, sheet feeeder, rear paper entry, automatic paper loading, automatic paper parking, and tear bar.

C.ITOH ELECTRONICS, INC.

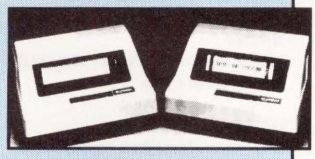
C.ITOH
C.Itoh Electronics, Inc.



■ **CI-2500**
180x120dpi • 300cps Draft Printing Speed • 50cps NLQ Printing Speed • $1,049
The CI-2500 is a DEC compatible printer with a wide 15.5 inch, 136 column carriage. It provides full LA75/LA50 and LA210 emulations. It uses high speed, high reliability 9-pin printing technology and provides three user-selectable print speeds: a 300cps draft mode, a 50cps NLQ mode and a 33cps LQ mode. It includes top, bottom, and rear paper entries, push/pull tractors and optional sheet feeders to simplify paper handling for multiple part forms, labels, and specialized cut sheets. The CI-2500 comes standard with a variety of ASCII, DEC, IBM and multinational character sets and fonts. The CI-2500 has a buffer size of 10KB. It includes a standard RS232/RS423 interface.

C.ITOH ELECTRONICS, INC.

C.ITOH
C.Itoh Electronics, Inc.



■ **CI-400/800**
200x288dpi • 400lpm Draft Printing Speed • 85lpm NLQ Printing Speed • $5,595
The CI-400 and CI-800 PowerLine multimode dot matrix line printers offer speeds of 400lpm and 800lpm, respectively, and provide a choice of letter quality, data processing and memo-quality print modes. A flexible 200x288dpi graphics mode is used for barcoding and graphics printing applications. The CI-400/800 cover a multitude of demanding business applications from high volume printing, high resolution graphics, barcodes and labels, multipart forms printing and printing on custom and unique forms such as payroll checks, invoices, and shipping and purchase orders. Standard interfaces include RS232 and Centronics or DataProducts parallel.

■ **CI-4010**
400cps Draft Printing Speed • 87.5cps NLQ Printing Speed
The Model 10 also features 87.5cps of letter quality output. Options include a tear bar, sheet feeder, an RS422 interface, and as a paper basket. The 1:1 aspect ratio is 72x72.

C.ITOH ELECTRONICS, INC.

C.ITOH
C.Itoh Electronics, Inc.



■ **CI-5000**
330x216dpi • 450cps Draft Printing Speed • 110cps NLQ Printing Speed • $1,995
The ProWriter CI-5000 is a rugged high speed 18-wire printer. It has four high speed, high quality print modes. The CI-5000 is compatible with the IBM ProPrinter XL, Epson FX-286e and DEC LA210/LA75/LA50 dot matrix printers. Both bottom and rear paper loading are available; paper may travel via top or rear exit, push-tractor, pull-tractor or friction feed. A wide selection of type of forms, paper thickness, pinfeed paper, cut sheets, or even envelopes provides versatility in applications. Also standard are zero-inch tear off, auto paper park, and auto top of form. The CI-5000 has an easy-to-use control panel with multiple user numbers for quick set-up.

■ **CI-4030**
400cps Draft Printing Speed • 87.5cps NLQ Printing Speed
The Model 30 also features 87.5cps of letter quality output. Options include a tear bar, sheet feeder, and paper basket. The 1:1 aspect ratio is 144x144.

■ **CI-800**
200x288dpi • 800lpm Draft Printing Speed • 170lpm NLQ Printing Speed • $7,495
The CI-800 is available with graphics adapter processor boards that simplify the creation of bar codes, forms, and labels; also features cabinets, quietized covers, paper baskets, and maintenance agreements.

■ **ProWriter 1550-SP**
160x144dpi • 180cps Draft Printing Speed • 45cps NLQ Printing Speed
Features automatic vertical and horizontal tabbing, right and left justfication, and true super- and subscripts. Also features throughput speeds of 65lpm and 45lpm in draft and memo modes, respectively.

■ **ProWriter 1550-SR**
160x144dpi • 180cps Draft Printing Speed • 45cps NLQ Printing Speed
Features automatic vertical and horizontal tabbing, right and left justfication, and true super- and subscripts. Also features throughput speeds of 65lpm and 45lpm in draft and memo modes, respectively.

■ **ProWriter 8510-SP**
160x144dpi • 180cps Draft Printing Speed • 45cps NLQ Printing Speed

■ **ProWriter 8510-SR**
160x144dpi • 180cps Draft Printing Speed • 45cps NLQ Printing Speed
The ProWriter Series features automatic vertical and horizontal tabbing, right and left justfication, and true super- and subscripts. Also features throughput speeds of 110lpm and 74lpm in draft and memo modes, respectively.

■ **ProWriter C715A**
300cps Draft Printing Speed • 100cps NLQ Printing Speed
Seven color, 24-pin printer that features a 136-column wide output capacity and uses identity cards to emulate the Epson LQ-1000, Toshiba P351, IBM ProWriter XL and Diablo 630.

■ **ProWriter C815**
570cps Draft Printing Speed • 162cps NLQ Printing Speed
Features a 136-column wide output capacity, a diamond-shaped printhead with four rows of six pins (24-pin printer). Emulates IBM ProPrinter XL, Toshiba P351, and Qume Sprint 11 printers.

■ **Tri Printer 10**
144x144dpi • 87cps NLQ Printing Speed

■ **Tri Printer 20P**
240x144dpi • 87cps NLQ Printing Speed
The Tri Printer 10 and 20P are also available with additional fonts and an extended receive buffer.

■ **Tri Printer 20S**
240x144dpi • 87cps NLQ Printing Speed

■ **Tri Printer 30**
206x144dpi • 87cps NLQ Printing Speed
The Tri Printer 20S and30 are also available with additional fonts.

■ **TriPrinter**
88cps NLQ Printing Speed • $1,995

CITIZEN AMERICA CORPORATION

■ **124**
360x180dpi • 200cps Draft Printing Speed • 132cps NLQ Printing Speed • $749
Features convertible push or pull tractors, top and bottom paper feed paths, automatic paper loading facility, and letter quality output at 66cps. Available with optional font cards. PC compatible.

■ **224**
360x180dpi • 200cps Draft Printing Speed • 132cps NLQ Printing Speed • $999
Features easy access front mounted DIP switches, automatic paper loading, and letter quality output at 66cps. Available with optional font cards. PC compatible.

■ **MSP-40**
240x216dpi • 240cps Draft Printing Speed • 48cps NLQ Printing Speed • $499
Features automatic paper loading, top and bottom paper feed paths, as well as a convertible push or pull tractor. Also available with optional font cards. PC compatible.

■ **MSP-45**
240x216dpi • 240cps Draft Printing Speed • 48cps NLQ Printing Speed • $729

■ **MSP-50**
240x216dpi • 240cps Draft Printing Speed • 48cps NLQ Printing Speed • $629

■ **MSP-55**
240x216dpi • 300cps Draft Printing Speed • 60cps NLQ Printing Speed • $829
The Citizen printer line may require special considerations for use with DEC equipment.

CRADEN PERIPHERALS CORP.

■ **DP4**
150cps NLQ Printing Speed

DATAPRODUCTS CORPORATION

■ **LM1200**
1200lpm Draft Printing Speed • 320lpm NLQ Printing Speed • $27,595

■ **LM300**
300lpm Draft Printing Speed • $5,795

■ **LM315**
300lpm Draft Printing Speed • $6,895
The LM315 features a 55dBA noise level while operating and offers pedestal rather than desktop configurations.

■ **LM600**
600lpm Draft Printing Speed • $7,895
The LM600 features a 65dBA noise level while operating and offers pedestal rather than desktop configurations. It also features an 8600 hour MTBF.

■ **LM615**
600lpm Draft Printing Speed • $8,795
The LM615 features a 55dBA noise level while operating and offers pedestal rather than desktop configurations.

■ **LM900**
900lpm Draft Printing Speed • 480lpm NLQ Printing Speed • $21,595
The LM900 features a 65dBA noise level while operating, a towel ribbon to support heavy duty cycle printing, and pedestal rather than desktop configurations. It also prints in graphics mode up to 100 ipm. The entire LM Series combines the high throughput of a line printer and the flexibility of a dot matrix and is able to generate raster graphics as well as popular bar codes. It also features QMS Magnum Code V compatibility.

DATASOUTH COMPUTER CORPORATION

■ **BarCode 300**
300cps Draft Printing Speed • $1,995
Generates bar codes including Code 39, Codabar, UPC or EAN and Interleaved 2 of 5 and Straight 2 of 5. Also generates forms for shipping labels, shelf labels, and material control documents.

■ **DS 180+**
180cps Draft Printing Speed • $1,395
Same as the DS 180DD.

■ **DS 180DD**
180cps Draft Printing Speed • $1,695
DEC LA120 compatible printers designed to print multipart forms on demand. Feature zero tear-off printing.

■ **DS 220**
220cps Draft Printing Speed • 45cps NLQ Printing Speed • $1,695
The DS 220 is also capable of generating bar codes and features OCR capabilities.

■ **DS 400**
400cps Draft Printing Speed • 120cps NLQ Printing Speed • $1,995
Generates bar codes and is available with optional OCR capabilities. Features a straight paper path, and exceptional multipart forms handling capabilities.

DEREX INC.

■ **1040**
360cps Draft Printing Speed • 90cps NLQ Printing Speed • $1,799
Features a 24-wire printhead, zero tear-off and paper parking, IC font cards, and optional sheet feeders.

■ **3410 XDQ**
144x144dpi • 400cps Draft Printing Speed • 100cps NLQ Printing Speed • $2,275
DEC LA210 compatible. Standard features include quietized cabinet, long life ribbon cassette, zero inch tear-off, and rear and bottom feed. Optional bar codes and sheet feeders.

■ **3800**
400x144dpi • 500cps Draft Printing Speed • 125cps NLQ Printing Speed • $2,100
High performance printer with exceptional applications flexibility, including three paper paths, zero inch forms tear-off, auto paper park, and forms set-up memory.

■ **4410**
140x144dpi • 400lpm Draft Printing Speed • 82lpm NLQ Printing Speed • $5,000
Offers data processing and letter quality output including multiple character set styles, and sizes, bar codes, and graphic output.

■ **4440**
140x144dpi • 800lpm Draft Printing Speed • 165lpm NLQ Printing Speed • $7,500
Offers high performance output with unmatched versatility, including numerous character sets and styles, bar codes, graphics and OCR. Features ANSI 3.64 and Printronix compatibility.

■ **4470**
1200lpm Draft Printing Speed • 250lpm NLQ Printing Speed • $12,250
Offers complete data processing performance at 1200lpm along with versatile high resolution graphics, line drawing, multiple character sets, block graphics, plot graphics and bar codes.

■ **4490**
140x280dpi • 1400lpm Draft Printing Speed • 300lpm NLQ Printing Speed • $17,200
Offers complete data processing performance at 1400lpm along with versatile high resolution graphics, line drawing, multiple character sets, block graphics, plot graphcis and bar codes.

EPSON AMERICA, INC.

■ **LQ1000**
360x360dpi • 60cps NLQ Printing Speed

■ **LQ1050**
360x180dpi • 73cps NLQ Printing Speed
The LQ1050 is capable of handling spreadsheet applications.

■ **LQ800**
360x360dpi • 60cps NLQ Printing Speed

■ **LQ850**
360x180dpi • 73cps NLQ Printing Speed
The LQ850 is also available with a single-bin sheet feeder with envelope feed capability, a pull tractor, a 32KB buffer expansion, and font cartridges.

■ **LX800**
240x72dpi • 30cps NLQ Printing Speed
The LX800 features SelecType front control panel which allows popular font styles to be selected at the touch of a button.

FACIT INC.

■ **4528D**
200cps Draft Printing Speed • $1,875
Demand document printer. Incorporates special tractors to facilitate the immediate tear-off of tickets, forms, or labels. Optional DEC LA120 emulation.

■ **4528V**
200cps Draft Printing Speed • $1,625
Features 13 resident bar codes, variable size characters up to 9.5" in height, and up to six part forms printing. Optional DEC LA120 emulation.

■ **4528V**
200cps Draft Printing Speed • $1,675
The 4528V is designed for bar code generation and text and graphics printing. Optional DEC LA120 emulation.

■ **B1100**
60x240dpi • 135cps Draft Printing Speed • 27cps NLQ Printing Speed • $325

■ **B1150**
60x240dpi • 160cps Draft Printing Speed • 535cps NLQ Printing Speed • $495
The B1100 and 1150 feature an IBM command mode, push tractors, and friction feed. Ideal as screen printers for video terminals. Compact design with less than 50dBA noise level. Also features 136 columns for printing reports.

■ **B3100**
60x240dpi • 250cps Draft Printing Speed • 60cps NLQ Printing Speed • $745

■ **B3150**
250cps Draft Printing Speed • 60cps NLQ Printing Speed • $895

■ **B3350**
60x240dpi • 200cps Draft Printing Speed • 100cps NLQ Printing Speed • $995

■ **B3350**
60x240dpi • 400cps Draft Printing Speed • 100cps NLQ Printing Speed • $1,495

■ **B3450**
60x360dpi • 80cps NLQ Printing Speed • $1,298
The B Series features four paper paths, push/pull tractors, and a rotary font selection switch. Options include DEC LA75, LA50, LA210 emulations and single or dual cut sheet feeders.

■ **C6510**
60x240dpi • 300cps Draft Printing Speed • 75cps NLQ Printing Speed • $1,972

■ **C6520**
60x240dpi • 300cps Draft Printing Speed • 75cps NLQ Printing Speed • $1,972
The C6510 and 6520 are designed for high volume printouts of lists, forms, labels, letters, and graphics. Feature a soft set-up, seven color capability, and a forms park function.

■ **C7500**
60x240dpi • 400cps Draft Printing Speed • 100cps NLQ Printing Speed • $2,599
Designed for high speed/high volume applications. Features push/pull tractors, soft set-up, 15 color capability and forms park function.

■ **DocuMate 3000**
240cps Draft Printing Speed • 80cps NLQ Printing Speed • $1,749
Features a straight paper path, six part forms printing, immediate tear off, 13 resident bar codes. Optional DEC LA120 and IBM Proprinter emulations. Supports Twinax interface.

GENICOM CORPORATION

■ **3320Q**
144x144dpi • 360cps Draft Printing Speed • 180cps NLQ Printing Speed • $1,965
Heavy duty, office quiet printer featuring less than 55dBA. Features rear paper feed for demand document applications and prints the original plus five copies. OCR and additional fonts as well as a 4KB buffer expansion are available options.

■ **3410 XLQ**
144x144dpi • 480cps Draft Printing Speed • 120cps NLQ Printing Speed • $2,175
This Series also includes the 3410 XLS (standard model) at $2010, the 3410 XCQ (color model) at $2,600, the 3410 XDQ (DEC compatible model) at $2,275, and the 3410 XBQ (bar code model) at $2,280.

■ **Series 1020**
240x144dpi • 200cps Draft Printing Speed • 100cps NLQ Printing Speed • $1,065
This Series includes the 1020C (color model) at $1,175 and the 1020T (Tempest model) at $3,125.

■ **Series 1025**
240x144dpi • 200cps Draft Printing Speed • 100cps NLQ Printing Speed • $899
Prints on zero inch tear off paper and features 80- and 136-column capabilities and three font cartridges. Options include bar code and label printing capabilities as well as expansion buffer sizes of 8KB to 64KB.

■ **Series 3000**
288x144dpi • 480cps Draft Printing Speed • 180cps NLQ Printing Speed • $1,495+
The Series 3000 is available in six models from 240-400cps print speed and 60cps to180cps near letter quality output. Bar code option available.

■ **Series 3000Q**
288x144dpi • 480cps Draft Printing Speed • 180cps NLQ Printing Speed • $1,495+
Same as 3000. However, this is a quietized model.

■ **Series 4410**
140x144dpi • 400lpm Draft Printing Speed • 82lpm NLQ Printing Speed • $6,195
The 4410 is also available with a bar code option.

■ **Series 4440**
140x144dpi • 800lpm Draft Printing Speed • 165lpm NLQ Printing Speed • $7,795
Optional OCR-A and OCR-B bar codes are available.

■ **Series 4470**
280x144dpi • 1200lpm Draft Printing Speed • 250lpm NLQ Printing Speed • $12,228
Features a ribbon life of 80 million characters, a 65dBA sound pressure level, and Printronix P300/P600 compatibility. Options include a 55dBA acoustic kit as well as an 8KB buffer.

■ **Series 4490**
280x144dpi • 1400lpm Draft Printing Speed • 300lpm NLQ Printing Speed • $17,228
Features a standard cabinet and a lifetime warranty on the shuttle mechanism. Available with OCR-A and OCR-B bar code options.

HEWLETT-PACKARD COMPANY

■ **HP2563B**
140x144dpi • 300lpm Draft Printing Speed • $7,790
Supports QMS Magnum language and is equipped with a sound acoustic cabinet, a passive stacking aid. A tabletop version is available for $6290.

■ **HP2564B**
140x144dpi • 600lpm Draft Printing Speed • $12,950
Supports QMS Magnum language and is equipped with a sound acoustic cabinet. It is also available in a cabinet style version for $11,450.

■ **HP2566B**
140x144dpi • 900lpm Draft Printing Speed • $22,640
Supports QMS Magnum language.

■ **HP2567B**
140x144dpi • 1200lpm Draft Printing Speed • $29,170

■ **HP2567B**
140x144dpi • 1600lpm Draft Printing Speed • $30,050
Both HP2567B models support the QMS

Magnum language and are available with a character set for $2,120.

INFOSCRIBE, INC.

■ **1000**
72x72dpi • 200cps Draft Printing Speed • 100cps NLQ Printing Speed • $1,390
The 1000 printer features servo head positioning, multiple character sets, and downloadable fonts.

■ **1100**
144x144dpi • 200cps Draft Printing Speed • 40cps NLQ Printing Speed • $1,590
Same as the 1000. The 1100 printer also features high density graphic capabilities.

■ **1200**
144x144dpi • 200cps Draft Printing Speed • 40cps NLQ Printing Speed • $1,995
Same as the 1000. The 1200 printer also prints up to eight colors.

■ **1400**
144x144dpi • 400cps Draft Printing Speed • 80cps NLQ Printing Speed • $1,895
The 1400 printer is also available with a bar code option as well as buffer sizes up to 32KB.

■ **800**
144x144dpi • 200cps Draft Printing Speed • 40cps NLQ Printing Speed • $1,845
The 800 printer is a demand document printer with zero inch tear off paper support, capable of printing six-part carbon or NCR forms.

INTERSCIENCE COMPUTER SERVICES

■ **8070+**
168x84dpi • 100cps NLQ Printing Speed
The 8070+ is also available with the following optional features: an automatic cut-sheet feeder, character sets, font styles, and bar code fonts.

■ **ICS 9030**
240x72dpi • 53cps NLQ Printing Speed

■ **ICS 9034**
83cps NLQ Printing Speed
This model is equipped with a 24-wire configuration.

■ **ICS 9040**
240x72dpi • 53cps NLQ Printing Speed

■ **ICS 9044**
240x72dpi • 33cps NLQ Printing Speed
The 9000 Series features proportional spacing, continuous under- and over score, super- and subscript, and italics, serif, and sans-serif text styles. Single and double bin cut-sheet feeders are available as options. This model is equipped with a nine-wire configuration.

■ **ICS MX100**
340cps Draft Printing Speed • 140cps NLQ Printing Speed

■ **ICS MX120**
180cps NLQ Printing Speed

■ **ICS MX200**
340cps NLQ Printing Speed

ITHACA PERIPHERALS, INC.

■ **PcOS 250**
144x144dpi • 160cps Draft Printing Speed • 40cps NLQ Printing Speed • $995
Point-of-sale printer equipped with both impact and thermal print technology. Designed for retail applications where the database for store operations, customer check-out and invoicing functions warrant integration into a single computer.

■ **PcOS 51**
144x144dpi • 160cps NLQ Printing Speed • $420
The PcOS 51 generates a basic customer receipt.

■ **PcOS 52**
144x144dpi • 160cps NLQ Printing Speed • $495
The PcOS 52 generates receipts and also provides a record of customer transactions on two-ply paper. The second copy is automatically rewound.

■ **PcOS 53**
144x144dpi • 160cps NLQ Printing Speed • $480
The PcOS 53 is an enhanced journal/receipt/validation printer providing the functions of the 52 model as well as the ability to validate checks and print all standard charge forms.

JDL, INC.

■ **850 EWS**
180x180dpi • 144 cpi NLQ Printing Speed

■ **850 EWS/GL+**
180x180dpi • 144 cpi NLQ Printing Speed
The 850EWS and 850EWS/GL+ are classified as a printers/plotters and feature output with up to 14 colors. Also available with optional dual bin automatic sheet feeders and additional fonts.

NORTH ATLANTIC INDUSTRIES

■ **Tempest 7020**
180cps NLQ Printing Speed • $4,490

■ **Tempest 7035**
180cps NLQ Printing Speed • $3,990

OKIDATA CORPORATION

■ **Microline 172**
180cps Draft Printing Speed • 30cps NLQ Printing Speed • $289
Affordability, reliability, and space-sensitivity are some features of this lightweight printer.

■ **Microline 182 Turbo**
186cps Draft Printing Speed • 39cps NLQ Printing Speed • $339
Designed for industrial workstation and point-of-sale markets.

OUTPUT TECHNOLOGY CORPORATION

2141
400lpm Draft Printing Speed • $4,895

■ **2161**
600lpm Draft Printing Speed • $6,450
The 2141 and 2161 printers feature an Output-Open-Architecture design that offers two expansion slots for additional interfaces or application cards.

■ **2180**
800lpm Draft Printing Speed • $7,895
Standard features include built-in bar codes, dot addressable graphics, downloadable fonts and font cartridge capabilities.

■ **560DL**
560cps Draft Printing Speed • $1,995
Features front panel menu programing, built-in bar codes, front and bottom paper feed, full international character sets, and Epson, DEC, and IBM Proprinter XL emulations.

■ **850PrintNet**
100x72dpi • 240lpm Draft Printing Speed • 32lpm NLQ Printing Speed • $2,995
Emulates the DEC LA120 and features functional capabilities such as data processing, spreadsheets, labels, and bar codes. Used as a networked or shared device in a cluster of serial computer devices. Bi-directional communication is possible at up to 19.2Kbps baud. Compatible with the 11/750.

■ **850XL**
100x72dpi • 240lpm Draft Printing Speed • 32lpm NLQ Printing Speed • $2,395
The 850XL emulates the DEC LA120 and the Epson, prints 240lpm in draft quality, and features functional capabilities such as data processing, spreadsheets, labels, bar codes, and graphics (in Epson emulation only). An optional 8K buffer size is also available. Please note that the 850XL is compatible with the 11/750.

■ **OT-700n**
100x72dpi • 850cps Draft Printing Speed • 66cps NLQ Printing Speed • $2,095

PANASONIC

■ **KX-P1524**
67cps NLQ Printing Speed
The KX-P1524 also features 24 pin letter quality output.

■ **KX-P1595**
240x240dpi • 51cps NLQ Printing Speed
The KX-P1595 features proportional space printing as well as a friction feed and adjustable push tractor. It is available with a 32KB buffer option, an auto cut sheet feeder, and a bottom feed tractor.

PRINTEK, INC.

■ **910HT**
144x144dpi • 200cps Draft Printing Speed • 45cps NLQ Printing Speed • $1,395

■ **920HT**
144x144dpi • 340cps Draft Printing Speed • 80cps NLQ Printing Speed • $1,895
The 9x0HT Series features a new printhead control technique, Dynamic Position Adjustment (DPA) that (1) conducts heat away from the printhead, (2) uses ruby bearings to guide the print wires onto the paper, (3) uses tungsten wires, and (4) features clappers that are plated with a nickel compound. Also features downloadable fonts and is available with an optional buffer expansion to 8KB.

LASERS (12 & 26 ppm), LINE MATRIX, DOT MATRIX, BAND PRINTERS, SOLID INK PRINTERS

...from the world's leading independent printer supplier

Dataproducts

2600 SERIES LASERS: 26 ppm; serial & parallel interfaces; 250/500 sheet cassettes; 11" X 17" paper handling; 300 dpi; 100K monthly duty cycle. *Options:* Forms overlay, 1500 capacity sheet feeder, cabinet, paper cassettes, stacker/flipper. *Emulations:* LN03+, Diablo 630, TEK 4010/4014, Postscript (TM), B-Series Line Printer, RIPrint (TM), HP LaserJet *Other interfaces:* Appletalk or DPC parallel.

LINE MATRIX: 300 to 1200 lpm; OCR, Bar Codes, High Density Text, Graphics & Charts 5900 to 8600 MTBF

LINE BAND SERIES 300 to 1500 lpm, 16 Digit LCD, 136 columns, RS-232, Centronics & DPC Parallel, SSVFU or DAVFU

For more information call:

S/S/T SOFTWARE SYSTEMS TECH.
305 Broadway NY, NY 10007
Tel 212-964-9600 Fax 212-233-4678

ALL Dataproducts printer carry a 90 day on site warranty

OUTPUT

■ 930
144x144dpi • 200cps Draft Printing Speed • 80cps NLQ Printing Speed • $1,695
The 930 is also available with a buffer expansion to 8KB, single or dual sheet feeders, and additional, as well as downloadable fonts. It also features an offset 18-pin printhead for character definition.

■ FormsPro 2000
144x144dpi • 200cps Draft Printing Speed • 80cps NLQ Printing Speed • $2,095
Heavy-duty demand document printer that is capable of printing forms with up to nine parts. Available with optional bar code, OCR fonts, and a buffer expansion to 8KB.

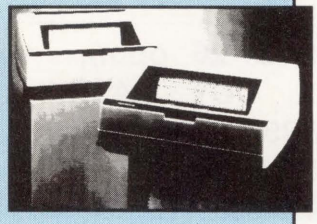
PRINTRONIX, INC.

■ 4160
160x168dpi • 130lpm Draft Printing Speed • $5,995
High resolution printer/plotter that combines superior output performance with reliable, low-cost operation. IGP and PI-80 are available options.

■ L150
120x72dpi • 150lpm Draft Printing Speed • 80lpm NLQ Printing Speed • $3,745
The L Series bar code printers feature the patented Printronix hammerbank technology that prints with small hammertips, resulting in smaller dots for precise resolution. IGP option available.

PRINTRONIX, INC.

PRINTRONIX



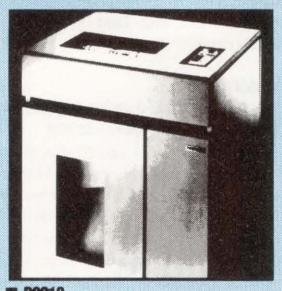
■ P3040
180x96dpi • 400lpm NLQ Printing Speed • $4,750
With multimode printing, variable resolution, and exceptional printing functionality, the P3040 fits a broad range of applications. Users may integrate different pitch types and combine text and graphics on the same print line. The optional Intelligent Graphics Processor (IGP) makes it easy to design general business forms, bar codes, and labels. The optional quietized cabinet offers a quiet 55dBA operation for any office environment.

■ P6000L Series
120x72dpi • 800lpm Draft Printing Speed • 180lpm NLQ Printing Speed • $5,400+
Features RibbonMinder which offers multifunction capabilities targeted for a wide range of applications including text printing, data processing reports, and bar code labels.

■ S7024
144x144dpi • 240cps Draft Printing Speed • 60cps NLQ Printing Speed • $1,365
Offers multimode printing, 55dBA quiet operation, and compatibility with most systems. Features include multinational character sets, character font downloading, multiple print pitches, and bar codes.

PRINTRONIX, INC.

PRINTRONIX



■ P9012
120x72dpi • 1200lpm Draft Printing Speed • 480lpm NLQ Printing Speed • $12,995
The P9012 is the premier printer for high speed text and graphics printing. With speeds up to 1200lpm, the P9012 makes short work of a wide variety of applications such as multipart forms, bar code labels, and data procesing reports. The Intelligent Graphics Processor (IGP) option brings electronic forms generation to high speed printing, eliminating the need for preprinted forms. Tough enough for the shipping dock and a quiet 55dBA operation for the office, the P9012 does it all with ease, speed, and Printronix reliability.

QUME CORPORATION

■ 11/40 PLUS
40cps NLQ Printing Speed

■ 11/55 PLUS
55cps NLQ Printing Speed
Single and dual bin sheetfeeders as well as an envelope feeder are also available.

■ 11/90 PLUS
90cps NLQ Printing Speed
The 11/xx PLUS Series is available with options including an automatic bidirectional forms tractor and a single bin sheetfeeder.

SEIKOSHA AMERICA, INC.

■ BP-5420FL
420cps Draft Printing Speed • 104cps NLQ Printing Speed • $1,999
Printer emulates Epson FX/DEC LA-120 printers. Features include bidirectional with logic seeking; paper width up to 15.5"; rear/bottom paper feed.

■ SBP 10AI
800cps Draft Printing Speed • $4,495

SUMMUS COMPUTER SYSTEMS

■ SUM-2400
200x200dpi • 60cps NLQ Printing Speed

TANEUM COMPUTER PRODUCTS

■ TCP 660
200x200dpi • 800lpm Draft Printing Speed • 280lpm NLQ Printing Speed • $8,990

■ TCP 690
200x200dpi • 1200 Draft Printing Speed • 450 NLQ Printing Speed • $11,990
The TCP 660 and 690 are fully LG01 compatible with increased speed with bar code and graphics capabilities. Compatibility with LAxxx allows 13.3 and 16.7 cpi. Prices include a 90 day on-site warranty, installation, and training.

TEMPEST TECHNOLOGIES, INC.

■ 1020T
120x48dpi • 200cps Draft Printing Speed • 100cps NLQ Printing Speed • $2,995
The 1020T utilizes plug-in personality and font cartridges for maxium flexibility in selecting fonts, emulations, and interfaces.

■ DWP5155Q
120x48dpi • 45cps NLQ Printing Speed • $2,200
This model is equipped with a quietized cover.

■ LPF 5600
120x72dpi • 600lpm NLQ Printing Speed • $11,500

■ LPF 5600XQ
120x72dpi • 600lpm NLQ Printing Speed • $12,800
The XQ model is equipped with a quietized cover.

■ LPM 5300
120x72dpi • 300lpm NLQ Printing Speed • $9,950
Features spring leaf hammers and coils mounted on a hammer bank. A magnet holds each hammer in a retracted position until it prints a single dot. It is then released by an electrical impulse through its associated coil.

■ LPM 5300XQ
120x72dpi • 300lpm NLQ Printing Speed • $11,250
Same as the LPM 5300. The XQ model is equipped with a quietized cover.

■ SLP 3184
144x144dpi • 200cps Draft Printing Speed • 50cps NLQ Printing Speed • $2,895
Available with single and double bin sheet feeders, bar codes capabilities, font styles, downloadable fonts, and a 6KB buffer expansion.

■ SLP 3304
144x144dpi • 200cps Draft Printing Speed • 100cps NLQ Printing Speed • $3,595

■ SLP 3404
144x144dpi • 400cps Draft Printing Speed • 100cps NLQ Printing Speed • $3,995

TEXAS INSTRUMENTS, INC.

■ 810
150cps Draft Printing Speed • $1,645
The 810 is capable of handling forms up to nine parts thick and is also available with optional stacking trays. An enhanced model (letter quality) is also available.

■ 810LQ
20cps NLQ Printing Speed • $2,495
Same as the 810. This model also features downloadable fonts, sub- and superscript and bar code capabilities.

■ 850C
144x144dpi • 150cps Draft Printing Speed • 35cps NLQ Printing Speed • $599

■ 850XL
144x144dpi • 150cps Draft Printing Speed • 35cps NLQ Printing Speed • $599
The 850C and 850XL are available with 4KB or 16KB buffer option expansions.

■ 855
144x144dpi • 150cps Draft Printing Speed • 35cps NLQ Printing Speed • $739
Same as the 850XL. This model is also available with an automatic sheet feeder package.

■ 860XL
144x144dpi • 150cps Draft Printing Speed • 35cps NLQ Printing Speed • $899

■ 865
144x144dpi • 150cps Draft Printing Speed • 35cps NLQ Printing Speed • $999
The 860XL and the 865 are available with 4KB or 16KB buffer option expansions.

■ 875
144x144dpi • 240cps Draft Printing Speed • 35cps NLQ Printing Speed • $799

■ 877
144x144dpi • 240cps Draft Printing Speed • 35cps NLQ Printing Speed • $999
The 875 and 877 are versatile desktop printers for word processing and data processing applications, featuring color printing, multiple, paper paths, paper parking and three print speeds.

■ 880
144x144dpi • 300cps Draft Printing Speed • 75cps NLQ Printing Speed • $2,195

■ 880DP
144x144dpi • 300cps Draft Printing Speed • 150cps NLQ Printing Speed • $2,195
Rear or bottom straight paper paths are standard on the 880 and 880DP printers. Optional printheads are available for various part forms.

■ 885
144x144dpi • 300cps Draft Printing Speed • $2,295
The 885 is a demand document printer, featuring zero tear-off and a straight paper path. An optional 22KB buffer expansion is available.

WALLACE COMPUTER SERVICES

■ W4300
300lpm NLQ Printing Speed • $15,200

ELECTROSTATIC PLOTTERS

C.ITOH ELECTRONICS, INC.

■ 2400
400x400dpi • $55,000

■ 3600
400x400dpi • $65,000

CALCOMP, INC.

■ 5723
200x200dpi • 12 or 25MBytes • 2ips Plotting Speed • $22,900
Features control panel, line enhancement, self-diagnostics, CalComp's patented Enviroclean toning system, plug-in ROM pack firmware, and exclusive quick-plotting mode.

■ **5723XP**
200x200dpi • 12 to 140MBytes • 2ips Plotting Speed • $26,400
Same as 5723. This model also features an extra-performance processor, thereby improving total throughput.

■ **5725**
400x400dpi • 12 or 25MBytes • .7ips Plotting Speed • $22,900
The 5725 offers the same features as the 5723.

■ **5725XP**
400x400dpi • 12 to 140MBytes • .7ips Plotting Speed • $26,400
The 5725XP offers the same features as the 5723XP.

■ **5733**
200x200dpi • 12 or 25MBytes • 2ips Plotting Speed • $26,500
The 5733 features the same capabilities as the 5723 .

■ **5733XP**
200x200dpi • 12 to 140MBytes • 2ips Plotting Speed • $31,000
The 5733XP offers the same features as the 5723XP.

■ **5735**
400x400dpi • 12 or 25MBytes • .5ips Plotting Speed • $27,500
The 5735 offers the same features as the 5733.

■ **5735XP**
400x400dpi • 12 to 140MBytes • .5ips Plotting Speed • $31,000
The 5735XP offers the same features as the 5723XP.

■ **5745**
400x400dpi • 12 or 25MBytes • .4ips Plotting Speed • $65,000
The 5745 offers the same features as the 5723.

■ **5745XP**
400x400dpi • 12 to 140MBytes • .4ips Plotting Speed • $68,500
The 5745XP offers the same features as the 5723XP.

■ **5825**
400x400dpi • 12 or 25MBytes • .7ips Plotting Speed • $49,000
Features electronic registration, plug-in ROM pack firmware, self-diagnostics, and Calcomp's patented Enviroclean toning system.

■ **5825XP**
400x400dpi • 12 to 280MBytes • .7ips Plotting Speed • $55,000
The 5825XP offers the same features as the 5825 model. In addition, this model features an extra-performance processor, thereby improving total throughput.

■ **5835**
400x400dpi • 12 or 25MBytes • .5ips Plotting Speed • $59,000
The 5835 offers the same features as the 5825.

■ **5835XP**
400x400dpi • 12 to 280MBytes • .5ips Plotting Speed • $65,000
The 5835XP offers the same features as the 5825XP.

■ **5845**
400x400dpi • 12 or 25MBytes • .4ips Plotting Speed • $69,000
The 5845 offers the same features as the 5825.

■ **5845XP**
400x400dpi • 12 to 280MBytes • .4ips Plotting Speed • $75,000
The 5845XP offers the same features as the 5825XP.

Precision Image Corporation

■ **C448**
400x400dpi • 20MBytes • 6 min Plotting Speed • $60,000
The C448 is equipped with an internal vector-to-raster controller and is compatible with Calcomp and Versatec software. It is also available with an optional 85MB of expansion memory.

■ **M448**
400x400dpi • 20MBytes • 1.5 min Plotting Speed • $45,000
The M448 is capable of plotting in 48 gray shades and 80 patterns, is equipped with an internal vector-to-raster controller, and is compatible with Calcomp and Versatec software. It is also available with an optional 85MB of expansion memory.

Versatec

■ **8524**
200x200dpi • 1ips Plotting Speed • $16,900
Traditional pen plotter users now may afford the speed and high performance of electrostatic. Versatec's 8524 monochrome plotter has been reduced from $19,900 to $16,900.

■ **8536**
200x200dpi • 1ips Plotting Speed • $19,900
The 8536 is the first wide format electrostatic monochrome plotter for under $20,000. It provides E-size drawings on 36" wide roll media.

Hard Copy Units

Codonics Inc.

■ **VP-3500**
30sec Copy Time • 152x152dpi • $6,700
The VP-3500 is capable of generating gray-scale images directly from an external video source.

■ **VP-95 II**
10sec Copy Time • 152x152dpi • $4,200

Hecon Corporation

■ **HardCopy Screen Printer**
5-7sec Copy Time • $995

Seiko Instruments

■ **CH-5301**
<45sec Copy Time • 152x152dpi • 4912 Colors Supported • 3-45s Image Download Time
The CH-5301 features optional video or parallel interfaces. The video interface is able to scale, rotate and change color assignments to images independently of the host CPU.

■ **CH-5301S**
152x152dpi • $9,995+
The CH-5300S Series includes a color hardcopier as well as a color rasterizer. Direct connections to a terminal or spooled data configurations are supported. In addition, this Series supports an RS-232 serial interface.

■ **CH-5312**
<120sec Copy Time • 3328x2048dpi • 4912 Colors Supported • 3-45s Image Download Time
The CH-5312 also features optional video or parallel interfaces. The video interface includes on-board image memory, which produces multiple copies of a single image independently of the host CPU. Also supports an 11x17 paper size.

■ **CH-5312S**
203x203dpi • $9,995+
The CH-5312S also features optional video or parallel interfaces. The video interface includes on-board image memory, which produces multiple copies of a single image independently of the host CPU. Also supports an 11x17 paper size.

■ **TARGAPLOT-1**
60sec Copy Time • 240x240dpi • 4096 Colors Supported • 2-4m Image Download Time • $4,995
The TARGA Series provides direct output for personal computers equipped with the AT&T Truevision Advanced Raster Graphics Adapter (TARGA). This product line is able to capture continuous-tone images and manipulate and blend these images for presentation applications. An optional multiplexer is available which serves up to four different terminals.

■ **TARGAPLOT-2**
60sec Copy Time • 240x240dpi • 4096 Colors Supported • $9,995

■ **TARGAPLOT-3**
60+sec Copy Time • 203x203dpi • >15K Colors Supported • 2-4m Image Download Time • $5,995
The TARGAPLOT-2 and -3 feature the same capabilities as TARGAPLOT-1, including multiple copy functions.

Tektronix, Inc.

■ **4690SC**
8 Colors Supported • 2-30s Image Download Time • $2,995

■ **4690SC**
64 Colors Supported • 2-30s Image Download Time • $9,995
The 4690SC copiers feature 2-30 seconds download time, allowing coninued use of the display while the color copy is being printed in the background.

■ **4692**
1-3min Copy Time • 1536x1152dpi • 216 Colors Supported • $7,795
The 4692 features air-assist drop-on-demand technology and provides superior image quality and color saturation. Additional image sizes include 10x7.5, 5x3.75, and 9.4x7.5. The Tek 4521 and 4522 are color video processors, compatible with the Tek 4692 that capture the screen image and convert it into data while the 4692 is freed for other tasks.

■ **4692S**
$13,000+
The 4692S color output system consists of a Tektronix 4510A rasterizer and a Tektronix 4692 color printer.

■ **HC01**
17sec Copy Time • $980

■ **HC02**
21sec Copy Time • $1,275

Ink Jet Printers

Eastman Kodak

■ **Diconix 150 Plus**
192x192dpi • $499
An ideal companion to a laptop computer. Battery operated, lightweight portable printer that performs at 180 characters per second in draft mode.

Hewlett-Packard Company

■ **PaintJet**
180x180dpi • $1,395
The PaintJet is capable of printing up to 16 colors at a time from a 330 color palette resident in the printer memory at a resolution of 90dpi. It is also capable of printing thousands of colors with appropriate software.

Hitachi America, Ltd.

■ **HJP-1610**
400x400dpi • $150,000
The HJP-1610 is available five months after ordering.

Howtek, Inc.

■ **Pixelmaster**
240x240dpi • $7,500
The Pixelmaster produces high resolution text and graphics and offers a wide range of applications from graphics arts to desktop publishing with PostScript compatibility.

Tektronix, Inc.

■ **4510A**
$5,995
The 4510A is a color graphics rasterizer that facilitates a direct host connection of the 4692 printer and the 4696 copier creating shared system resources.

■ **4696**
120x120dpi • $1,795
When connected to the Tek 4510A Color Graphics Rasterizer, the 4696 produces over 130,000 shades and colors. The Tek 4521 and 4522 are color video processors that are compatible with the 4696. These processors capture the screen image and convert it into data while the 4696 is freed for other tasks.

Ion Deposition Printers

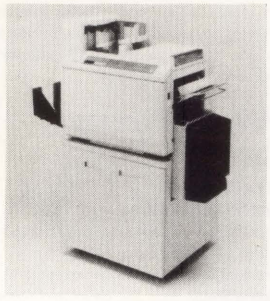
C.Itoh Electronics, Inc.

■ **MegaLine**
30ppm Printing Speed • 4 Resident Fonts • 150K Pages Per Month

■ **MegaLine**
45ppm Printing Speed • 4 Resident Fonts • 150K Pages Per Month • $21,995
The MegaLine Series is also available with optional features including a job separator and additional automatic paper feeders with 500 and 2,000 sheet capacities.

LN03, Ethernet and POSTSCRIPT In One Printer.

C.ITOH



MegaServe

- High speed, high quality text and graphics in 30 and 45 PPM models.
- Monthly duty cycle up to 250,000 pages at approximately 2 cents per page.
- Emulations include DEC LN03® Plus, HP LaserJet II,® Tektronix 4014® and Diablo 630 ECS.®
- Standard interfaces include Dataproducts® parallel, Centronics® parallel, SCSI, RS-232 and RS-422.
- POSTSCRIPT® language and Ethernet® connectivity are also available.
- 43 resident fonts.
- 300 x 300 DPI resolution.

The following are registered trademarks of their respective companies: Centronics of Centronics Data Computer Corporation; Dataproducts of Dataproducts Corporation; DEC LN03 of Digital Equipment Corporation; HP LaserJet II of Hewlett-Packard Corporation; Tektronix 4014 of Tektronix, Inc.; POSTSCRIPT of Adobe Systems, Inc.; Diablo 630ECS of Xerox Corporation; Ethernet of Communication Machinery Corporation.

MESA
TECHNOLOGY CORPORATION

9720 Patuxent Woods Dr. Columbia, MD 21046

Columbia, MD	*Lowell, MA*	*Milford, CT*
800/950-6372	800/999-6780	800/777-0984
301/290-8150	508/458-4100	203/878-6800
Morris Plains, NJ	*Philadelphia, PA*	*Charlotte, NC*
800/444-9238	800/333-8641	800/777-2340
201/538-8004	215/644-3100	704/529-1792
Springfield, MA	*Burlington, VT*	
800/999-6780	800/999-6780	
Raleigh, NC	*Richmond, VA*	
800/777-2340	800/777-2340	

An Electrocomponents Company

■ **MegaPro**
30 or 45ppm Printing Speed • 8 Resident Fonts • 250K Pages Per Month
Capable of generating graphics using vector draw, area fill or host download bitmapped graphics. Sixteen additional fonts may be selected as options.

C.ITOH ELECTRONICS, INC.

C.ITOH
C.Itoh Electronics, Inc.



■ **MegaServe**
30 or 45ppm Printing Speed • 43 Resident Fonts • 150K+ Pages Per Month • $21,995
The MegaServe ion deposition printer offers 300x300dpi resolution, 30ppm or 45ppm speed (45ppm option is available at $29,995), and a maximum monthly duty cycle of 250,000 pages. It is designed to provide extensive connectivity not only to host computers but also to local area networks. Standard interfaces include DataProducts parallel or Centronics parallel, Small Computer System Interface (SCSI), RS232, and RS422. With LAP-Ethernet, users have a complete solution for connecting the MegaServe to Ethernet with both interfacing hardware and host software. Forty-three fonts are standard and additional fonts may be accessed from an on-board Winchester disk. All the popular DEC compatible software programs are supported.

DATA SYSTEMS HARDWARE

■ **VX023**
45ppm Printing Speed • Supports Resident Fonts • $29,995
The VX023 ion deposition page printer offers inexpensive, high speed output at 45ppm . Electronic forms processing is accommodated by downloading and storing up to eight forms in internal storage.

■ **VX023**
30ppm Printing Speed • Supports Resident Fonts • $21,995
The VX023 ion deposition page printer offers inexpensive, high speed output at 30ppm . Electronic forms processing is accommodated by downloading and storing up to eight forms in internal storage.

DATAGRAPHIX

■ **4800**
75ppm Printing Speed • 10 Resident Fonts • $64,950
The 4800 produces computer generated documents and reports and is equipped with a host resident software package that designs graphics such as logos and special forms.

DELPHAX SYSTEMS

■ **S3000G**
30ppm Printing Speed • 250K Pages Per Month • $20,000+

DEREX INC.

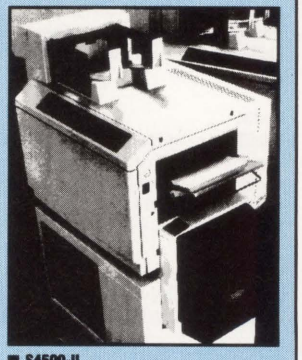
■ **S3000**
30ppm Printing Speed • 8 Resident Fonts • 250K Pages Per Month • $12,995
Features a duty cycle of 250,000 pages per month, a paper capacity of up to 2500 pages, and connects as a parallel printer or off a DeRex Ethernet server. Cost of ownership is less than two cents per page.

■ **S3000-II**
30ppm Printing Speed • 8 Resident Fonts • 250K Pages Per Month • $18,995
The S3000-II supports vector draw and raster graphics through DeRex's raster image processor which features HP LaserJet+, Diablo 630, LinePrinter, and LN03+ emulations.

■ **S4500**
45ppm Printing Speed • 8 Resident Fonts • 250K Pages Per Month • $21,995
High performance page printer with an unmatched duty cycle and low cost of ownership. Excellent replacement for high speed line printers.

DEREX INC.

DEREX INC.



■ **S4500-II**
45ppm Printing Speed • 8 Resident Fonts • 250K Pages Per Month • $26,995
The S4500-II supports vector draw and raster graphics through DeRex's raster image processor which uses HP LaserJet+, LN03+, Diablo 630, or LinePrinter emulations. Lowest cost of ownership...Beats the cost of typical laser printers since ion printers cost 1.5 cents per page and typical laser printers cost three to five cents per page. It also matches the low cost of line impact printing, yet offers more versatility and efficiency. Heavy duty applications... Designed specifically to attach to computer systems with applications of up to 250,000 pages per month duty cycle. Nationwide support...DeRex backs up all products with complete nationwide on-site service as well as an internal staff of technical experts.

■ **S6000-II**
75ppm Printing Speed • 8 Resident Fonts • 1m Pages Per Month • $51,150
The S6000-II features an unmatched high performance with cost of ownership at less than two cents per page.

MILTOPE CORPORATION

■ **3802**
90ppm Printing Speed • 4 Resident Fonts • 1.5m Pages Per Month • $69,950
Requires the DEC DFM-32 controller.

■ **Series 30L**
30ppm Printing Speed • 8 Resident Fonts • 250K Pages Per Month • $14,000
Requires the DEC DFM-32 controller. Features two-up printing for archival storage. Options include a 2000 sheet paper elevator and a base cabinet.

■ **Series 30M**
30ppm Printing Speed • 8 Resident Fonts • 250K Pages Per Month • $24,950
Requires the DEC DFM-32 controller. Features include bar code printing, two-up printing for archival storage, and logos and signatures for office correspondence. Optional 2000 sheet paper elevator available.

■ **Series 37**
37ppm Printing Speed • 8 Resident Fonts • 250K Pages Per Month • $39,950
Requires the DFM-32 controller. Features include two-up printing for archival storage, bar code printing, and logos and signatures for office correspondence.

■ **Series 60**
60ppm Printing Speed • 1.5m Pages Per Month • $60,950

■ **Series 75**
75ppm Printing Speed • 4 Resident Fonts • 1m Pages Per Month • $69,950
The Series 60 and 75 require the DEC DFM-32 controller.

NBS SOUTHERN, INC.

■ **3880**
80ppm Printing Speed • 115 Resident Fonts • 800K Pages Per Month • $64,950
Features a standard two forms overlay buffer and positive job separation, and is plug compatible with all popular computers and PC networks. Requires the DEC DMF-32 controller.

■ **Mercurion 1/80**
80ppm Printing Speed • 4 or 8* Resident Fonts • 500K Pages Per Month • $49,950
The Mercurion 1/80 is a high volume unit for printing variable data output. Requires the DEC DMF-32 controller.

LASER PRINTERS

ADVANCED TECHNOLOGIES INTERNATIONAL

■ **0880/DW-2**
8ppm • 300x300dpi • Supports Resident Fonts • 768KBytes RAM• 6K Pages Per Month • $4,795

■ **0880/DW-3**
8ppm • 300x300dpi • Supports Resident Fonts • 2MBytes RAM• 6K Pages Per Month • $4,795

■ **0880/GR-2**
8ppm • 300x300dpi • 2MBytes RAM• 6K Pages Per Month • $5,695

■ **1570/DW-2**
15ppm • 300x300dpi • Supports Resident Fonts • 768KBytes RAM• 25K Pages Per Month • $7,995

■ **1570/DW-3**
15ppm • 300x300dpi • Supports Resident Fonts • 2MBytes RAM• 25K Pages Per Month • $7,995

■ **2670/DW-2**
26ppm • 300x300dpi • Supports Resident Fonts • 768KBytes RAM• 100K Pages Per Month • $17,995

■ **2670/DW-3**
26ppm • 300x300dpi • Supports Resident Fonts • 2MBytes RAM• 100K Pages Per Month • $17,995
The 2670/DW-2 and DW-3 feature a straight-through paper path that makes operation virtually jam-proof. Options include an output collator and a print share unit which enables the 2670 Series to be multiplexed between dissimilar hosts.

■ **2670/GR-2**
26ppm • 300x300dpi • 2MBytes RAM• 100K Pages Per Month • $17,995

■ **LC-6026**
26ppm • 300x300dpi • Supports Resident Fonts • 4 to 8*MBytes RAM• 100K Pages Per Month • $24,900

AGFA-GAVEART

■ **P400PS**
18ppm • 406x406dpi • 66 Resident Fonts

APOLLO COMPUTER, INC.

■ **Domain/Laser-26**
26ppm • 300x300dpi • 13 Resident Fonts

APPLE COMPUTER, INC.

■ **LaserWriter IINT**
8ppm • 300x300dpi • 35 Resident Fonts • 2MBytes RAM• $4,599

■ **LaserWriter IINTX**
8ppm • 300x300dpi • 35 Resident Fonts • 2MBytes RAM• $4,599
The LaserWriter IINTX also features a maximum RAM expansion of 12MB.

■ **LaserWriter IISC**
8ppm • 300x300dpi • 4 Resident Fonts • 1MByte RAM• $2,799
The LaserWriter Seris supports the BigBin 1000 motorized paper tray which allows LaserWriter II printers to hold five times more paper.

BGL TECHNOLOGY CORPORATION

■ **Mark B**
8ppm • 300x300dpi • 9 Resident Fonts • 1MByte RAM• 10K Pages Per Month • $2,095
The Mark B also emulates LaserJet+, Diablo 630, and Epson FX-80, expandable to 4MB. PostScript version is available for $2,795.

■ **Mark I**
12ppm • 300x300dpi • 35 Resident Fonts • 4-8MBytes RAM• 25K Pages Per Month • $5,495
The Mark I emulates Versatec, Tektronix 4014, Diablo 630, LaserJet+, RIPrint, and DEC LN03.

■ **Mark II**
20ppm • 300x300dpi • 35 Resident Fonts • 4 to 8MBytes RAM• 80K Pages Per Month • $13,675
With several accessory options available, the Mark II is configured to meet users needs. It features a PC/AT based controller for ultimate versatility.

■ **Mark III**
26ppm • 300x300dpi • 35 Resident Fonts • 4 to 8MBytes RAM• 80K Pages Per Month • $15,995
The Mark III emulates Versatec, Tektronix 4014, Diablo 630, RIPrint, LaserJet+, and DEC LN03. May be configured to meet users needs, and is equipped with a PC/AT based controller for ultimate versatility.

C.ITOH ELECTRONICS, INC.

■ **LIPS 10+**
10ppm • 300x300dpi • Resident Fonts • $2,995
Includes six CIEFLEX fonts and also emulates the HP LaserJet+, Diablo 630, and Espon FX-80 devices.

■ **LIPS II**
10ppm • 300x300dpi • 92 Resident Fonts • 15K Pages Per Month
Includes six CIEFLEX fonts and also emulates the HP LaserJet+, Diablo 630, and Espon FX-80 devices. Also includes forms and bar code generation features.

CAMINTONN CORPORATION

■ **TurboLaser/PS**
8ppm • 300x300dpi • 35 Resident Fonts • 3MBytes RAM• 10K Pages Per Month • $4,795
The TurboLaser/PS also supports AppleTalk.

■ **TurboLaser/PS-Plus3**
8ppm • 300x300dpi • 35 Resident Fonts • 3MBytes RAM• 10K Pages Per Month • $5,695
Users may have three systems connected to the printer simultaneously via Centronics, RS232, or AppleTalk interfaces. Users may also switch from one emulation (DEC LN03, HP LaserJet Series II, Xerox, and Diablo 630 ECS) to another via software commands.

CANON USA, INC.

■ **LPB-8 A1**
8ppm • 300x300dpi • $3,000

■ **LPB-8 A2**
8ppm • 300x300dpi • $4,300

DATA SYSTEMS HARDWARE

■ **VX 020**
12ppm • 300x300dpi • Supports Resident Fonts • $7,995
The DSH VXO020 is PostScript compatible and prints at a true 12ppm. The HP LaserJet emulation offers an alternative for non-PostScript applications. Supports AppleTalk.

DATA TERMINAL MART

■ **L10**
10ppm • $3,245

DATAPRODUCTS CORPORATION

■ **LZR 1230**
12ppm • 300x300dpi • 10 Resident Fonts • 25K Pages Per Month • $3,990
The LZR 1230 provides multiple emulations and paper handling options for network support.

■ **LZR 1260**
12ppm • 300x300dpi • 35 Resident Fonts • 25K Pages Per Month • $7,995
The LZR 1260 also supports AppleTalk.

■ **LZR 2620**
26ppm • 300x300dpi • 14 Resident Fonts • 100K Pages Per Month • $14,550
Recommended for hardware and software systems that already use line printers as primary output devices. Features form, overlay, logo and barcode capabilities.

■ **LZR 2630**
26ppm • 300x300dpi • 10 Resident Fonts • 100K Pages Per Month • $15,600
May be integrated into many word processing environments that require letter quality printing, and also features shared resource capabilities, supporting up to 40 workstations. Features proportional spaced text.

■ **LZR 2655**
26ppm • 300x300dpi • 6 Resident Fonts • 100K Pages Per Month • $20,800
The 2655 is also available with three different types of control software.

■ **LZR 2655/LJ**
26ppm • 300x300dpi • 34 Resident Fonts • 100K Pages Per Month • $14,995
The LZR 2655/LJ provides HP-LJ printing with a monthly 100K duty cycle durability.

■ **LZR 2655/LN**
26ppm • 300x300dpi • 17 Resident Fonts • 100K Pages Per Month • $14,995
The LZR 2655/LN provides heavy duty printing for the LN03+ market.

■ **LZR 2665**
26ppm • 300x300dpi • 13 Resident Fonts • 100K Pages Per Month • $18,700
The 2665 also features the capability to integrate text and graphics on one page.

DEREX INC.

■ **DRL 10**
10ppm • 300x300dpi • 79 Resident Fonts • 512KBytes RAM• 10K Pages Per Month • $2,895
Diablo 630, Qume Sprint II, NEC 3500, IBM graphics, HP LaserJet II, Epson FX, and line printer emulations are standard features.

■ **DRL 10+**
10ppm • 300x300dpi • 79 Resident Fonts • 1.5MBytes RAM• 10K Pages Per Month • $4,695
Features dual input hoppers, a manual envelope feeder and seven printer emulations. Options include a high capacity sheet feeder, raster and vector graphics, and 39 bar codes.

■ **DRL 20**
18ppm • 300x300dpi • 79 Resident Fonts • 1.5MBytes RAM• 20K Pages Per Month • $8,395
Features seven printer emulations, dual input hoppers, raster and vector graphics and 39 bar codes. Options include a high capacity sheet feeder and envelope feeder.

DICONIX, INC.

■ **Dijit 1/PS**
20ppm • 300x300dpi • 17 Resident Fonts

FACIT INC.

■ **P6060**
6ppm • 300x300dpi • 6 Resident Fonts • 1MByte RAM• 3K Pages Per Month • $1,995
Features HP-LJ+ emulation, front panel menus, a straight paper path, face-up or -down output, and prints labels and envelopes.

■ **P7080-A**
8ppm • 300x300dpi • 6 Resident Fonts • 10K Pages Per Month • $2,995
The P7080-A is available with optional PostScript emulation, bar code capabilities, and an additional 1.5MB of expansion memory.

GENICOM CORPORATION

■ **6140**
15ppm • 400x400dpi • 15 Resident Fonts • 1MByte RAM• 5K Pages Per Month • $4,295
Supports ACE and GeniScript (PostScript compatible) PDLs. Ideal for word processing and business graphics applications.

■ **6142**
20ppm • 400x400dpi • 15 Resident Fonts • 1MByte RAM• 5K Pages Per Month • $4,995
Same as the 6140 model. Also features 2MB to support desktop publishing, integrated text, and graphics.

HETRA, INC.

■ **3024**
24ppm • 300x300dpi • Resident Fonts • 70K Pages Per Month • $21,500

■ **3024S**
24ppm • 300x300dpi • Resident Fonts • 70K Pages Per Month • $19,000

■ **3808**
8ppm • 300x300dpi • 6 Resident Fonts • $1,900
The 3024, 3024S, and 3808 function as EDP printers, word processing printers, on-demand office printers, and business, industrial, and extended graphics image creators. Options include a 2000 paper output tray, remote communications, and available disk storage.

HEWLETT-PACKARD COMPANY

■ **HP LaserJet 2000A**
20ppm • 300x300dpi • 34 Resident Fonts • 1.5MBytes RAM• 70K Pages Per Month • $19,995
One of the LaserJet 2000 models designed to meet the high perfomance and demanding needs of the multiuser environments. Memory capacity is expandable to 5.5MB in 1MB increments. Also features unlimited downloadable fonts.

■ **HP LaserJet 2000D**
20ppm • 300x300dpi • 34 Resident Fonts • 70K Pages Per Month • $25,695
One of the LaserJet 2000 models that features extensive paper handling, including an automatic paper deck. Memory capacity is expandable to 5.5MB in 1MB increments. Also features duplex printing which provides automatic printing on both sides of the paper. Also features unlimited downloadable fonts.

■ **HP LaserJet 2000P**
20ppm • 300x300dpi • 34 Resident Fonts • 70K Pages Per Month • $21,995
Features extensive paper handling, including a 2,000 sheet input paper deck. Memory is expandable to 5.5MB in 1MB increments. Also features unlimited downloadable fonts.

■ **HP LaserJet IID**
8ppm • 300x300dpi • 24 Resident Fonts • 640KBytes RAM• $4,295
Includes two-sided printing with expand-

able memory and features unlimited downloadable fonts. An envelope feeder is optional.

■ **LaserJet Series II**
8ppm • 300x300dpi • 6 Resident Fonts • 512KBytes RAM• 12K Pages Per Month • 6
The LaserJet Series II printer is also available with 1MB, 2MB, or 4MB of optional memory.

InterScience Computer Services

■ **LR 1200**
12ppm • 300x300dpi • 10 Resident Fonts
The LR1200 has a duty cycle of 10,000 pages per month, and also features proportionally spaced text.

■ **LR 2600**
26ppm • 300x300dpi • 6 Resident Fonts
The LR 2600 has a duty cycle of 80,000 pages per month, and features proportionally spaced text.

Kentek Information Systems

■ **K-2**
12ppm • 240x240dpi • 30 Resident Fonts • 1024Bytes RAM• 24K Pages Per Month • $8,235

■ **K-2+**
15ppm • 300x300dpi • 30 Resident Fonts • 1024Bytes RAM• 40K Pages Per Month • $8,970
The K-2 and K-3 are also available with additional optional fonts, a cluster switch, which allows support for up to eight CPUs via a port scanning switch, and a virtual device interface that enables the printer to accept function commands form ANSI or ISO standard VDI commands.

■ **K-3**
24ppm • 300x300dpi • 30 Resident Fonts • 1024Bytes RAM• 80K Pages Per Month

■ **K-4**
24ppm • 300x300dpi • 30 Resident Fonts • 1024Bytes RAM• 80K Pages Per Month

Kyocera Unison, Inc.

■ **F1000A**
18ppm • 300x300dpi • 79 Resident Fonts
Memory may be expanded to 1.5MB.

■ **F1010**
10ppm • $3,695

■ **F2010**
10ppm • $4,695
The F1010 and F2010 are equipped with 36 bit-mapped fonts, four scalable fonts, eight foreign language sets, and are capable of generating 39 different bar codes.

■ **F3010**
18ppm • 300x300dpi • 79 Resident Fonts
Memory may be expanded to 3.5MB.

Linotype Company

■ **Linotronic 100**
1270x1270dpi • 13 Resident Fonts • $35,000

■ **Linotronic 300**
2540x2540dpi • Resident Fonts • $75,000

MacDonald Dettwiler & Assoc.

■ **Fire 240**
This printer features a printing speed of 2000 lpm.

■ **GeoFire**
This printer features a printing speed of 2500 lpm.

Mitek Systems Corporation

■ **120T**
8ppm • 300x300dpi • 5K Pages Per Month

■ **125T**
8ppm • 300x300dpi • 5K Pages Per Month
The 125T offers the capacity for three users to share the printer.

■ **150T**
15ppm • 300x300dpi • 25K Pages Per Month

NBS Southern, Inc.

■ **NBS 3840**
40ppm • 300x300dpi • 57 Resident Fonts • 8MBytes RAM• 200K Pages Per Month • $39,950

■ **NBS 3840D**
40ppm • 300x300dpi • 57 Resident Fonts • 8MBytes RAM• 200K Pages Per Month • $54,950
The NBS 3840 and 3840D feature internal electronics and a direct attach to the entire VAX series. Up to 40 images are printed per minute.

NEC Information Systems, Inc.

■ **LC860 PLUS**
8ppm • 300x300dpi • 4 Resident Fonts • 1.3MBytes RAM• 5K Pages Per Month • $3,415

SilentWriter LC890
8ppm • 300x300dpi • 35 Resident Fonts • 3MBytes RAM• 5K Pages Per Month • $4,975

NewGen Systems Corporation

■ **Turbo PS/300**
8ppm • 300x300dpi • 35 Resident Fonts • 2MBytes RAM• 5K Pages Per Month • $5,495
Ultra high speed PostScript compatible laser printer that prints up to 15 times faster than competitive laser printers.

■ **Turbo PS/400**
8ppm • 400x400dpi • 35 Resident Fonts • 3MBytes RAM• 5K Pages Per Month • $6,495
Ultra high speed 400dpi PostScript compatible laser printer with nearly twice the resolution of a 300dpi (160,000dpi vs 90,000dpi) laser printer.

Nissei Sangyo America, Ltd.

■ **LB 040**
40ppm • 300x300dpi • 130 Resident Fonts • 4MBytes RAM• 200K Pages Per Month

■ **LB 040**
40ppm • 240x240dpi • 200 Resident Fonts • 4MBytes RAM• 200K Pages Per Month
The LB 040 Series features duplex printing operation, internal error/data reporting and recovery, unlimited fonts per page, and forms overlay capabilities. No speed degradation when changing forms or fonts, or when using graphics. Also available with optional memory up to 8MB.

Nissho Electronics Corporation

■ **LN-2248**
22ppm • 480x480dpi • 6MBytes RAM• 60K Pages Per Month • $24,000
Suited for electronic publishing and CAD/CAM, the LN-2248 may be adapted easily to fit general and custom applications as a departmental or demand publishing printer.

Office Automaton Systems Inc.

■ **LaserPro 1510**
15ppm • 300x300dpi • 27 Resident Fonts • 768KBytes RAM• 25K Pages Per Month • $6,495
Features bar code capabilities and is also available with an optional 1.152MB RAM.

■ **LaserPro 2200**
22ppm • 300x300dpi • 25 Resident Fonts • 1.5MBytes RAM• $1,550

■ **LaserPro 5215**
15ppm • 300x300dpi • 768KBytes RAM• 25K Pages Per Month

■ **LaserPro 5287**
8ppm • 300x300dpi • 1.5MBytes RAM• 5K Pages Per Month

■ **LaserPro 810**
8ppm • 300x300dpi • 27 Resident Fonts • 768KBytes RAM• 10K Pages Per Month • $3,995

■ **LaserPro Gold Express**
8ppm • 300x300dpi • 33 Resident Fonts • 2.5MBytes RAM• 5K Pages Per Month • $3,695

■ **LaserPro Series II**
8ppm • 300x300dpi • 27 Resident Fonts • 1MByte RAM• 5K Pages Per Month • $2,495

■ **LaserPro Silver Express**
8ppm • 300x300dpi • 27 Resident Fonts • 1.5MBytes RAM• 5K Pages Per Month • $2,995

Panasonic

■ **KX-P4450**
11ppm • 300x300dpi • 4 Resident Fonts • 512KBytes RAM• 5K Pages Per Month

Printer Systems Corporation

■ **Intelliprint 218**
18ppm • 300x300dpi • Supports Resident Fonts • 3MBytes RAM• 50K Pages Per Month • $14,395
The Intelliprint 218 features HP LaserJet Series II, DEC LN03+, and IBM 3812-2 compatibilities. Also suppports A5 and B5 paper sizes.

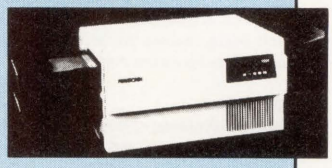
■ **Intelliprint 222**
22ppm • 300x300dpi • Supports Resident Fonts • 6MBytes RAM• 50K Pages Per Month
The Intelliprinter 222 also features HP LaserJet Series II, PMP, IBM3812-2, and DEC LN03+ compatibilities and also supports A4, A5, and B5 paper sizes.

Printronix, Inc.

■ **L1012**
12ppm • 300x300dpi • Supports Resident Fonts • 512KBytes RAM• 25K Pages Per Month • $3,495
Combines the high quality of printing and graphics using laser technology with rugged design. Features an unlimited downloadable font selection and user-changeable drums, developer, toner cartridges, and heat fusers.

PRINTRONIX, INC.

PRINTRONIX



■ **Report Expeditor**
24ppm • 300x300dpi • 72 Resident Fonts • $15,500
The high productivity Report Expeditor meets busy office demands with 24 images per minute of throughput. Solid state LED array technology achieves higher reliability by eliminating the moving parts of laser imaging systems. The Report Expeditor's superior paper handling and 300dpi resolution deliver top quality, collated output. A built-in disk drive makes it easy to select fonts and emulations including HP LaserJet 500+ or optional IBM 3812 MOD1. Targeted for the multiuser and networked environments, the Report Expeditor page printer is the ideal choice for volume departmental printing needs.

QMS, Inc.

■ **2308/S Turbo**
8ppm • 300x300dpi • 254 Resident Fonts • 6MBytes RAM• 5K Pages Per Month • $14,450
The ImageServer XP is equipped with an external controller that features 6MB RAM with a 20MB hard drive, imPRESS, and UltraScript PDLs, and five additional emulations. Supports Ethernet and 35 different typefaces.

■ **2308/S-2**
8ppm • 300x300dpi • 8 Resident Fonts • 2MBytes RAM• 5K Pages Per Month • $9,250

■ **2308/S-3**
8ppm • 300x300dpi • 8 Resident Fonts • 3MBytes RAM• 5K Pages Per Month • $9,750

■ **3308/S**
8ppm • 300x300dpi • 8 Resident Fonts • 3MBytes RAM• 3.3K Pages Per Month • $10,950
The 2308/S-2, S-3, and 3308/S are equipped with imPRESS, a page description language capable of typesetting and graphics functions. Support Ethernet and five additional resident printer emulations.

■ **3308/S Turbo**
8ppm • 300x300dpi • 254 Resident Fonts • 6MBytes RAM• 10K Pages Per Month • $15,450
The ImageServer XP is equipped with an external controller that features 6MB RAM with a 20MB hard disk, imPRESS and UltraScript PDLs, and five additional printer emulations. Supports Ethernet.

■ **3320 Turbo**
20ppm • 300x300dpi • 254 Resident Fonts • 6MBytes RAM• 35K Pages Per Month • $26,450
The ImageServer XP features an external controller with 6MB RAM with a 20MB hard disk, imPRESS and UltraScript PDLs, and five additional printer emulations. Supports Ethernet and B and A3 paper sizes.

■ **3320-3**
20ppm • 300x300dpi • 8 Resident Fonts • 3M Bytes RAM• 35K Pages Per Month • $22,950
The ImageServer XP is equipped with imPRESS, a page description language capable of typesetting and graphics functions. Supports Ethernet and five additional resident printer emulations.

■ **5320 Turbo**
20ppm • 300x300dpi • 254 Resident Fonts • 6MBytes RAM• 3.3K Pages Per Month • $32,450
The ImageServer XP is equipped with an external controller with 6MB RAM and a 20MB hard disk, imPRESS and UltraScript PDLs. Supports Ethernet and five additional resident printer emulations.

■ **5320-3**
20ppm • 300x300dpi • 8 Resident Fonts • 3M Bytes RAM• 35K Pages Per Month • $28,950
This ImageServer XP model is equipped with imPRESS, a page description language capable of typesetting and graphics functions. Supports Ethernet and five additional resident printer emulations. Also supports B and A3 paper sizes.

■ **6320 Turbo**
20ppm • 300x300dpi • 254 Resident Fonts • 6MBytes RAM• 35K Pages Per Month • $36,450
The ImageServer XP is equipped with an external controller that features 6MB RAM with a 20MB hard disk, imPRESS and UltraScript PDLs, and five addtional printer emulations. Supports duplex and signature printing.

■ **6320-3**
20ppm • 300x300dpi • 8 Resident Fonts • 3M Bytes RAM• 35K Pages Per Month • $32,950
The ImageServer XP is equipped with imPRESS, a page description language capable of typesetting and graphics functions. Supports Ethernet, five additional resident printer emulations, and duplex and signature printing.

■ **7320 Turbo**
20ppm • 300x300dpi • 254 Resident Fonts • 6MBytes RAM• 3.3K Pages Per Month • $39,450
The ImageServer XP is equipped with an external controller that features 6MB RAM with a 20MB hard disk, imPRESS and UltraScript PDLs, and five additional printer emulations. Supports duplex and signature printing.

■ **7320-3**
20ppm • 300x300dpi • 8 Resident Fonts • 3M Bytes RAM• 35K Pages Per Month • $35,950
The ImageServer XP is equipped with imPRESS, a page description language capable of typesetting and graphics functions. Supports Ethernet, five additional resident printer emulations, and duplex and signature printing.

The Best Laser Plotter/Printer for DEC users

"In addition to our DEC applications, the LaserLeader also interfaces with every other system we have."



"Perfect for networks because of its high speed and spooling capabilities."

The fastest systems on the market

Tired of plotters that run out of memory and take forever to plot/print PostScript or CAD files?

LaserLeader systems are the fastest, with a 12 MHZ/286 (16MHZ/386 or 20MHZ/386 optional), 4MB of memory and a 20 MB hard disk standard, coupled with a graphics processor.

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Because of the architecture of the controller, no matter how many dissimilar hosts are driving our units, the printer will never show a "PRINTER BUSY". BGL's systems have two 8 1/2" X 11" full page buffers (11" X 17" double page buffers available) for maximum throughput.

Expandability

The LaserLeaders were designed for ease of creating and updating emulations, flexibility of interfacing, and the ability to add special features for customers (on site if necessary).

Versatility

Emulations you can mix and match. LaserLeaders are compatible with LN03, HP/GL, LaserJet Series II, Versatec, Tektronix 4010/4014, Diablo 630, BGL/PDL (PostScript), and "Z".

Interfaces include: Ethernet (DECnet, TCP/IP), Versatec, Centronics, Dataproducts, Appletalk, IEEE-488, and RS-232C. Mix as many fonts as you need per page and print on paper sizes from 8 1/2" X 11" to 11" X 17". Duty cycles range from 25,000 to 100,000 pages per month.

Reliability

BGL has systems installed in Fortune 500 companies. The Mark I and III can run most communication software, enabling our systems to communicate for remote diagnostics and software updates. BGL's systems have nation-wide maintenance support through TRW.

Call now for further information.

(805)987-7305

BGL Technology Corporation
438 Constitution Avenue
Camarillo, CA 93010

FAX: (805) 987-7346
Telex: 467154

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■ **Big KISS II**
8ppm • 300x300dpi • 17 Resident Fonts • 640KBytes RAM• 10K Pages Per Month • $4,495

■ **Big KISS II M**
8ppm • 300x300dpi • 17 Resident Fonts • 1.125MBytes RAM• 10K Pages Per Month • $4,995
The Big KISS II and Big KISS II M feature Epson FX-80, Diablo 630, and Qume Sprint 11 emulations.

■ **KISSPlus**
8ppm • 300x300dpi • 34 Resident Fonts • 512KBytes RAM• 5K Pages Per Month • $2,690
Model 10 features Diablo 630, Epson FX-80, and Qume Sprint 11 emulations.

KISSPlus
8ppm • 300x300dpi • 34 Resident Fonts • 1MByte RAM• 5K Pages Per Month • $2,990
Model 20 features Epson FX-80, Diablo 630, Qume Sprint 11, IBM Proprinter and HP-PCL emulations.

■ **KISSPlus**
8ppm • 300x300dpi • 34 Resident Fonts • 2.5MBytes RAM• 5K Pages Per Month • $3,790
Model 30 features Epson FX-80, Diablo 630, Qume Sprint 11, IBM Proprinter, HP-PCL, and HP-GL emulations.

■ **KISSPlus**
8ppm • 300x300dpi • 42 Resident Fonts • 2.5MBytes RAM• 5K Pages Per Month • $4,190
Model 40 features Epson FX-80, Diablo 630, Qume Sprint 11, IBM ProPrinter, HP-PCL, HP-GL, and Tektronix 4010/4014 emulations.

■ **QMS LASERGRAFIX 1510**
15ppm • 300x300dpi • 36 Resident Fonts • 6MBytes RAM• 15K Pages Per Month • $11,995
The 1510 also emulates the Tektronix 4010/4014, the Qume Sprint 11, and the Diablo 630. Supports up to 14 different interface options.

■ **QMS LASERGRAFIX 2200**
22ppm • 300x300dpi • 36 Resident Fonts • 7MBytes RAM• 20K Pages Per Month • $15,995
The 2200 also emulates HP-GL, Tektronix 4010/4014, the Qume Sprint 11, and the Diablo 630. Supports up to 14 different interface options and A3 paper sizes.

■ **QMS LASERGRAFIX 800**
8ppm • 300x300dpi • 36 Resident Fonts • 2MBytes RAM• 5K Pages Per Month • $6,495

■ **QMS LASERGRAFIX 800 II**
8ppm • 300x300dpi • 36 Resident Fonts • 2MBytes RAM• 10K Pages Per Month • $7,995
The QMS LASERGRAPHIX 800 and 800 II feature Tektronix 4010/4014, Qume Sprint 11 and Diablo 630 emulations. Support up to 14 different interface options.

■ **QMS-PS 1500**
15ppm • 300x300dpi • 35 Resident Fonts • 4MBytes RAM• 15K Pages Per Month • $7,995
The QMS-PS 1500 supports AppleTalk and SCSI interfaces.

■ **QMS-PS 2200**
22ppm • 300x300dpi • 35 Resident Fonts • 4M Bytes RAM• 20K Pages Per Month • $12,995

■ **QMS-PS 800 II**
8ppm • 300x300dpi • 35 Resident Fonts • 2MBytes RAM• 10K Pages Per Month • $5,995

■ **QMS-PS 810**
8ppm • 300x300dpi • 35 Resident Fonts • 2MBytes RAM• 5K Pages Per Month • $4,995
The QMS-PS 800 II and 810 feature Diablo 630, HP-PCL and HP-GL emulations. Memory upgrades to 3MB RAM are available options.

■ **QMS-PS 820**
8ppm • 300x300dpi • 35 Resident Fonts • 2MBytes RAM• 10K Pages Per Month • $6,495
The QMS-PS 820 features Diablo, HP-GL and LaserJet+ emulations and supports AppleTalk and SCSI interfaces.

■ **SmartWriter 150**
15ppm • 300x300dpi • 22 Resident Fonts • 2.5MBytes RAM• 15K Pages Per Month • $6,995
The QMS-PS 820 features Diablo, HP-GL and LaserJet+ emulations and supports AppleTalk and SCSI interfaces.

■ **SmartWriter 150**
15ppm • 300x300dpi • 19 Resident Fonts • 2.5MBytes RAM• 15K Pages Per Month • $6,995
The SmartWriter 150 Proprinter version features IBM Proprinter, HP LaserJet+, Diablo 630, and QUME Sprint 11 emulations.

■ **SmartWriter 150**
15ppm • 300x300dpi • 40 Resident Fonts • 2.5MBytes RAM• 15K Pages Per Month • $6,995
The SmartWriter 150 LN03 Plus version features DEC LN03, Tektronix 4010/4014, and LaserJet+ emulations.

Qume Corporation

■ **Laser TENPLUS**
10ppm • 300x300dpi • 33 Resident Fonts • 5K Pages Per Month • $3,395
The LaserTEN printer also emulates the DEC LQP03 with an interface available from Data Terminal Mart at an additional $695.

■ **ScripTEN**
10ppm • 300x300dpi • 35 Resident Fonts • 3MBytes RAM• 5K Pages Per Month • $5,295

Ricoh Corporation

■ **LP 4150**
15ppm • 300x300dpi • $5,000+

■ **PC Laser 6000**
6ppm • 300x300dpi • $2,395

Summus Computer Systems

■ **SUM-8 II**
8ppm • 300x300dpi • 512KBytes RAM• 5K Pages Per Month • $1,895
The SUM-8 II is also available with a memory expansion capacity up to 4MB.

Talaris Systems Inc.

■ **1590 Printstation**
15ppm • 300x300dpi • 43 Resident Fonts • 3MBytes RAM• 25K Pages Per Month • $8,490
Features a new laser printer architecture designed for the mulituser computing environment, which employs two processors: (1) the Texas Instruments Graphics System Processor (GSP) for imaging and the (2) National Semiconductor 32016 for managing I/O and for command interpretation. Also features DEC LN03+, Tektronix 4014, and Diablo 630 ECS emulations. Options include an Ethernet interface and a two-page buffer.

■ **1590-T Printstation**
15ppm • 300x300dpi • 43 Resident Fonts • 5.5MBytes RAM• 25K Pages Per Month • $11,490
Equipped with a 50MHz graphics processor within the standard Printstation Control System that prepares the second page in memory while the first is still printing.

Talaris Systems Inc.



■ **2492-B Printstation**
24ppm • 300x300dpi • 43 Resident Fonts • 5.5MBytes RAM• 35K Pages Per Month • $24,990
Designed for organizations with high volume print needs, the Talaris 2495-B Printstation features a rated engine speed of 24ppm and a paper capacity that allows almost 90 minutes of continuous printing. The 2492-B maintains its rated engine speed, even when printing graphics, through the use of two processors and 5.5MB of RAM for dual-page buffering. With support for B-size paper and the HP-GL plotting language, the 2492-B is ideal for printing engineering drawings. Other standard emulations include HP LaserJet II, LN03+, Diablo 630 ECS, and Tektronix 4014. Options include PSI (a PostScript interpreter), an Ethernet interface, and a 32MB hard disk for font storage.

■ **T811/2**
8ppm • 300x300dpi • 15 Resident Fonts • 1MByte RAM• 5K Pages Per Month • $2,950
The T811/2 features Diablo 630 ECS, Epson FX-80, and Qume Sprint emulations.

The Holoscan Corporation

■ **Holoscan 28**
28ppm • 300x300dpi • 50K Pages Per Month
Equipped with the DP-100, an intelligent interface controller designed for data processing applications.

■ **Holoscan 28**
28ppm • 300x300dpi • 50K Pages Per Month
Equipped with the WP-300, an intelligent interface controller designed for office automation applications. Features include forms creation and overlay as well as bar code generation. An optional 1152KB DRAM is available.

■ **Holoscan 28**
20ppm • 300x300dpi • 50K Pages Per Month
Equipped with the S-500, an intelligent interface controller designed for scientific and engineering applications. Emulates a Tektronix 4010/4014, supporting vector draw, point plot, and incremental plot graphics capabilities. Also available with optional support for a mulituser environment.

The Laser Connection

■ **PS Jet**
8ppm • 300x300dpi • 13 Resident Fonts

■ **PS Jet+**
8ppm • 300x300dpi • 35 Resident Fonts • 2MBytes RAM• $5,495

Varityper

■ **4300**
10ipm • 2400x2400dpi • 25 Resident Fonts • 2MBytes RAM• $49,995
A laser imagesetter that outputs text and graphics from a variety of front-end systems that is capable of storing up to 400 fonts with an optional 20MB Winchester disk. Composes paginated volume text such as technical publications and manuals. Features a printing speed of 10ipm. Also supports AppleTalk.

■ **VT-600Plus**
10ppm • 600x600dpi • 13 Resident Fonts • 6MBytes RAM• 10K Pages Per Month • $16,995
Supports AppleTalk and has the capacity to download up to 150 fonts stored on the 20MB Winchester. Also uses 31 Adobe PostScript type fonts.

■ **VT-600W**
10ppm • 600x600dpi • 35 Resident Fonts • 6MBytes RAM• 10K Pages Per Month • $22,995
Generates output up to 7ppm for 11x17 paper size and also features an AppleTalk interface.

Xerox

■ **3700**
24ppm • 300x300dpi • 2 Resident Fonts
Software controlled laser printing system that is able to function in local or remote environments. Includes a screen, a keyboard, a 5.25" flexible diskette drive, and a 10MB (50MB*) hard disk drive. Supports user defined print file spooling.

■ **4045 Laser CP-150**
10ppm • 300x300dpi • 2 Resident Fonts • 1MByte
Options include an envelope cassette which holds up to 50 envelopes, 1.2MB to 2MB extended memory, and a 750 sheet/feeder stacker.

■ **4045 Laser CP-50**
10ppm • 300x300dpi • 2 Resident Fonts • 512K*Bytes
Options include an envelope cassette which holds up to 50 envelopes, 1MB extended memory, and a 250 sheet output sequencer.

Magnetography Printers

Bull Peripherals Corporation

■ **MP 6060**
240x240dpi • 60ipm • $81,851
Offers a high end solution to DEC impact line printer users who require speed and flexibility.

■ **MP 6090**
240x240dpi • 90lpm • $103,314
Offers a high end solution to DEC line printer users who require speed and flexibility.

Image Graphics, Inc.

■ **EBR 2000**
$350,000

Miscellaneous Printers

AMF GeoSpace Corporation

■ **GS6412**
192x192dpi • Drum Printing Technology

Constantine Engineering Labs

■ **5000A**
35mm SlideMaker Printing Technology

■ **5000B**
35mm SlideMaker Printing Technology

■ **8000A**
35mm SlideMaker Printing Technology

■ **8000B**
35mm SlideMaker Printing Technology

DataProducts Corporation

■ **SI 400**
Solid Ink Printing Technology
SI 400 uses solid ink technology which produces high quality and uses a straight paper path.

Eastman Kodak

■ **1392**
300x300dpi • Electrophotograph Printing Technology • $200,000
Printer supports multiple PDLs including Postscript. Open architecture and software enhancements provide systems flexibility. Utilizes LED imaging which produces extremely clean originals.

MacDonald Dettwiler & Assoc.

■ **ColorFire 240**
Drum Printing Technology

Optronics, Inc.

■ **P1500**
Drum Printing Technology

Tektronix, Inc.

■ **4693D**
300x300dpi • Thermal-wax Printing Technology • $7,995
The 4693D features multiuser and multitasking capabilities, 256 gray shades, 4MB RAM, and has a multiple print capability producing up to 99 copies, automatically.

■ **4693DS**
300x300dpi • Thermal-wax Printing Technology • $12,995
The 4693DS includes the same features as the 4693D. In addition, it is equipped with an image-enhancing color graphics rasterizer to produce laser quality output.

Pen Plotters

Bruning Computer Graphics

■ **Zeta 5400**
4 Pens Supported • 35ips • GML/HP-GL Graphics Language Support • $44,900+
The 5400 is a 54" wide roll plotter that is equipped with a proprietary servo-motor system as well as a linear actuator pen system. It also supports Tektronix Plot-10 and CCMP 960 graphics languages.

■ **Zeta 912**
8 Pens Supported • 30ips • GML/HP-GL Graphics Language Support • $3,950
The Zeta 912 also supports Tektronix Plot-10 and CCMP 960 graphics languages.

■ **Zeta 924PS**
8 Pens Supported • 30ips • GML/HP-GL Graphics Language Support • $6,700
Supports Tektronix Plot-10 and CCMP 960 graphics languages. It is a 24" high performance, dual mode unit which supports both cut sheet and continuous paper.

■ **Zeta 936PS**
8 Pens Supported • 30ips • GML/HP-GL Graphics Language Support • $8,700
Supports Tektronix Plot-10 and CCMP 960 graphics languages. It is a 36" high performance plotter that supports both continuous and cut sheet paper.

■ **Zeta 987**
8 Pens Supported • 30ips • GML/HP-GL Graphics Language Support • $4,950

■ **Zetadraf 900**
8 Pens Supported • 45ips • GML/HP-GL Graphics Language Support • $7,950
The Zeta 987 and the Zetadraf 900 are 36" plotters that utilize 6g acceleration for high throughput. Support Calcomp 960 and Tektronix Plot 10 graphics languages. Feature standard 512KB of expansion memory.

CalComp, Inc.

■ **1043GT**
8 Pens Supported • 24ips • PCI/CPGL Graphics Language Support • $7,995

■ **1044GT**
8 Pens Supported • 24ips • PCI Graphics Language Support • $11,900
Handles rolled paper sizes up to 36.7"x 120', and the maximum plotting length for using 120' rolled paper is 100 feet.

■ **1076C**
4 Pens Supported • 50ips • PCI Graphics Language Support • $17,995
Diagonally plots with velocities of up to 70ips. Handles rolled media of 36.7"x 120' with a plotting area of 34" x 120'. Cut sheet plotting area is 34x50 inches.

■ **1077**
4 Pens Supported • 50ips • PCI Graphics Language Support • $26,995
Diagonally plots with velocities of up to 70ips. Handles rolled media of 36.7in x 120ft with a plotting area of 34" x 120'. Cut sheet plotting area is 34x50 inches.

■ **Artisan 1023**
8 Pens Supported • 30ips • PCI/CPGL Graphics Language Support • $4,895

■ **Artisan 1025**
8 Pens Supported • 30ips • PCI/CPGL Graphics Language Support • $6,395
The Artisan 1023 and 1025 feature CalComp's Plot Manager firmware and CalComp's patented pen sensing capability, which senses the type of pen being used and automatically adjusts the pen speed and force, thereby enabling users to mix pen types without operator intervention.

Hewlett-Packard Company

■ **7440A**
8 Pens Supported • 15.7ips • HP-GL Graphics Language Support • $1,295
The 7440A (ColorPro) is also available with an optional extended ROM Graphics Enhancement Cartridge that gives the plotter expanded handshaking capabilities and plotting functions. All HP pen plotters require special configurations and cabling methods to connect to a DEC VAX. The most commonly used cable the DEC BC22D.

■ **7475A**
6 Pens Supported • 15ips • HP-GL Graphics Language Support • $1,895
The 7475A plotter also features 19 International character sets.

7550A
8 Pens Supported • 31.5ips • HP-GL Graphics Language Support • $3,900
The 7550A plotter also features 20 International character sets, each available in two fonts. The buffer size may be expanded to 12KB from the program. In addition, this model also features an automatic sheet feeder and a front panel that requests input, and displays operation and error messages.

■ **7570A**
8 Pens Supported • 15.7ips • HP-GL Graphics Language Support • $5,400
The 7570A (DraftPro) is equipped with a "pen sorting" feature that minimizes the number of pen picks by grouping lines of the same color together and drawing them simultaneously. It supports English and Architectural C and D media sizes as well as Metric A2 and A1 sizes.

■ **7595A**
8 Pens Supported • 24ips • HP-GL Graphics Language Support • $9,900
The 7595A (DraftMaster I) features 20 International character sets available in three fonts, an HP 7585B and 7586B software emulation mode, and a "pen sorting" function. It supports English A-E media sizes, Architectural C-E sizes, Metric A4-A0 sizes, as well as 17x22 and 34x44 paper sizes. It also supports the IEEE-488 interface.

■ **7596A**
8 Pens Supported • 24ips • HP-GL Graphics Language Support • $11,900
Same as the 7595A. The 7596A also supports rolled paper widths of 24 and 36 inches.

Houston Instrument

■ **DMP-61**
6 Pens Supported • 45ips • HP-GL Graphics Language Support

■ **DMP-62**
6 Pens Supported • 33ips • HP-GL Graphics Language Support
The DMP-61 and -62 feature built-in fonts and are available with an optional 1MB of memory.

Ioline Corporation

■ **LP3700**
1 Pen • 10ips • HP-GL/DM/PL Graphics Language Support • $4,195
Equipped with a continuously adjustable feature that accepts bond, vellum, and mylar film media, as well as a programmable keypad that stores users plot defaults in nonvolatile memory. Available with a multipen changer option that houses 8-20 pens and an optional 512KB buffer function that holds up to 1MB of compressed data, thereby increasing throughput.

■ **LP3700-MP**
1 Pen • 10ips • HP-GL/DM/PL Graphics Language Support • $4,695
An optional file server, PlotServr Plus, is available for $895 and is designed for Ioline's large pen plotters. It reads any ASCII file that is stored on a single or double sided 360KB or 1.2MB IBM PC-format diskette and plugs directly into the RS232 port that reside on the printers.

■ **LP4000**
1 Pen • 20ips • HP-GL/DM/PL Graphics Language Support • $5,495

■ **LP4000-MP**
1 Pen • 20ips • HP-GL/DM/PL Graphics Language Support • $5,995
Same as the LP3700-MP. In addition, the LP4000 and LP4000-MP are equipped with a passive roll-feed option that automatically advances paper for the next plot.

Numonics Corporation

■ **5460**
1 Pen • 7.7ips • HP-GL Graphics Language Support • $2,495

■ **5860**
8 Pens Supported • 7.7ips • HP-GL Graphics Language Support • $3,195
The 5460 and 5860 are high performance plotters that are compatible with most CAD systems. Equipped with Motorola 68000 and Zilog Super 8 microprocessors. High performance CAD compatible digitizers and mouse products are also available.

■ **7191**
8 Pens Supported • 35ips • HP-GL Graphics Language Support • $5,995
High performance plotter that is compatible with most CAD systems. Equipped with Motorola 68000 and Zilog Super 8 microprocessors and features automatic paper sensing, and soft pen handling.

Schlumberger Graphics

■ **1824**
8 Pens Supported • 33ips • HP-GL Graphics Language Support • $4,790

■ **1825**
8 Pens Supported • 33ips • HP-GL Graphics Language Support • $6,290

■ **1834-SR**
8 Pens Supported • 47ips • HP-GL Graphics Language Support • $6,890

■ **1835-SR**
8 Pens Supported • 47ips • HP-GL Graphics Language Support • $8,890
The 18xx Series features a plot buffering

system that frees the host computer from other use while plotting. Supports roller ball pens, fiber tip pens and liquid ink technical pens with a variety of media types such as vellum and film.

Tektronix, Inc.

■ **HC100**
4 Pens Supported • 9ips

Western Graphtec

■ **FP5301**
10 Pens Supported • 18ips • GP-GL Graphics Language Support • $3,290
This model is available with an optional set of ROMs which support Hewlett-Packard's software.

■ **MP3100**
8 Pens Supported • 15.7ips • GP-GL/HP-GL Graphics Language Support • $1,195

■ **MP3200**
8 Pens Supported • 15.7ips • GP-GL/HP-GL Graphics Language Support • $1,575

■ **MP3300**
8 Pens Supported • 15.7ips • GP-GL/HP-GL Graphics Language Support • $1,895
The MP 3200 and 3300 feature electrostatic hold-down.

■ **PD9011**
4 Pens Supported • 18ips • GP-GL/HP-GL Graphics Language Support • $8,950

■ **PD9111**
4 Pens Supported • 18ips • GP-GL Graphics Language Support • $5,995

■ **PD9311F**
4 Pens Supported • 18ips • GP-GL/HP-GL Graphics Language Support • $3,295
This model is equipped with a paper feed that holds up to 100 sheets.

■ **WX4731**
4 Pens Supported • 8ips • $3,750

Thermal Transfer Printers

CalComp, Inc.

■ **903**
1280x1024dpi • Serial/Parallel Interface(s) Supported • $8,995
Connects the printer to workstations with analog RGB output capability. Captures screen image in less than one second and frees the screen for the next image. Equipped with an internal multiplexer.

■ **ColorMaster**
200x203.2dpi • Serial/Parallel Interface(s) Supported • $4,795
Equipped with a built-in rasterizer. Offers fill options, including outlines, solid color areas, and dot cross-hatch patterns. Colors, patterns and textures may be blended to create different effects. Features a multiple copy function.

■ **ColorView 5612**
200x203.2dpi • Serial/Parallel Interface(s) Supported • $8,395
Features a tractor-feed mechanism for unattended operation and multiple copy generation.

■ **ColorView 5612VS**
200x203.2dpi • Serial/Parallel Interface(s) Supported • $11,995
Includes a color video controller (903) that connects the printer to workstations with analog RGB output capability. Supports black and white reversal, fractional enlargement and multiple copy generation.

■ **ColorView 5613**
300x300dpi • Serial/Parallel Interface(s) Supported • $9,495

■ **ColorView 5613 VS**
300x300dpi • Serial/Parallel Interface(s) Supported • $12,995

■ **ColorView 5912**
200x203.2dpi • Serial/Parallel Interface(s) Supported • $10,495
Stores and prints pre-rasterized images.

■ **ColorView 5912VS**
200x203.2dpi • Serial/Parallel Interface(s) Supported • $15,995
Stores and prints pre-rasterized images. Includes a color video controller (903) that connects the printer to workstations with analog RGB output capability. Supports black and white reversal, fractional enlargement and multiple copy generation.

■ **ColorView 5913**
300x300dpi • Serial/Parallel Interface(s) Supported • $13,995

■ **ColorView 5913 VS**
300x300dpi • Serial/Parallel Interface(s) Supported • $17,495

■ **PlotMaster**
200x203.2dpi • Serial/Parallel Interface(s) Supported • $5,295
Features a full three-plane buffer with enough vector capacity to accommodate the high data requirements of dense CAD drawings. PlotMaster emulates the CalComp 1040GT pen plotter via CalComp's PCI graphics language.

Fargo Electronics, Inc.

■ **Prodigy**
203x203dpi • Serial Interface(s) Supported • $2,495
Ideal for retail and industrial label, ticket, or tag printing applications. Prints bar codes, fonts and graphics using direct or thermal transfer printing methods.

LaserGraphics, Inc.

■ **Rascol III/CPS**
203x200dpi • 8 Resident Fonts • Serial/Parallel Interface(s) Supported • $9,950
The Rascol III/CPS is an intelligent color and black and white printing system that is equipped with a rasterizing microcomputer and a thermal transfer printer. The printing speed for black and white output is 30 seconds. Packaged with the printer is the Rascol III, a Motorola 68000-based rastering microcomputer (24x11x10).

QMS, Inc.

■ **ColorScript 100**
300x300dpi • 35 Resident Fonts • Parallel Interface(s) Supported • $15,995
The Model 20 is a high resolution, thermal transfer PostScript printer. It also prints transparencies.

■ **ColorScript 100**
300x300dpi • 35 Resident Fonts • Serial Interface(s) Supported • $19,995
Model 30 is a high resolution color thermal transfer PostScript printer. It also prints A3 size cut sheet paper and transparencies.

■ **QMS Colorgraphix 100**
300x300dpi • 48 Resident Fonts • Serial Interface(s) Supported • $13,995
The Model 65 is designed for CAD, CAE and presentation graphics environments. A DGIS based controller with windows, CGI, AutoCad, AutoShade, TIPS, TARGA, ANSI CGM, and HP-GL is also included. A two board controller resides on the ATbus or compatible.

RDK, Inc.

■ **RY-T001**
200x200dpi • Serial/Parallel Interface(s) Supported • $14,995
Widebody thermal plotter that supports a 300 foot roll of 33.5" wide thermal (FAX) paper. Resolution is better than pen or electrostatic plotters. Produces complex E size drawings in less than two minutes. May be used effectively to produce distribution copies.

Schlumberger Graphics

■ **5232-Color PS**
300x300dpi • 35 Resident Fonts • Serial/Parallel Interface(s) Supported • $19,900
Supports AppleTalk, Illustrator, and Adobe. Optional 20MB or 80MB hard disks are available.

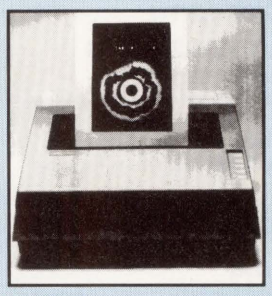
Seiko Instruments

■ **CH-5504**
300x300dpi

■ **CH-5514**
300x300dpi
The CH-5504 and -5514 feature a range of integrated video and parallel interface controller options that provides up to ten configurations with various color, resolution, and pricing choices.

TOYO Spectrum Corporation

TOYO SPECTRUM



■ **TPG-4300**
300x300dpi • $13,750
Without special software, TOYO's TPG-4300 thermal transfer video printer outputs 300dpi full color images on A or B size paper or transparancy film from any CRT monitor with up to 1280x1024dpi resolution. A built-in 125MHz interface automatically adjusts to any CRT monitor, accommodating interlaced or noninterlaced scanning, horizontal scan rates from 15KHz to 75KHz, and frame rates from 30Hz to 80Hz. It accepts video pixel frequencies from 7.5MHz to 125MHz, and video levels from 0.5 to 1.5 volts of RGB analog video. Up to eight program presets for different video timings and specifications permit hardcopy sharing among workstations, PCs, and graphic systems in any combination. Multiplexers may be daisy-chained to serve more than four channels. Image capture time of less than a second, quickly releases monitor for other work. Maximum printing time for maximum B-size image in full color is 180 seconds.

DATA ACQUISITION DEVICES

ANALOG-to-DIGITAL CONVERSION

Model	# of Single Ended Channels	# of Differential Channels	Throughput Rate	Crosstalk Rejection (dbm)	MPU	Data Buffer Size (Bytes)	# of Single Ended Starters	# of Differential Starters	Input Impedance	Typical Diff. (CMRR)	Warranty	Price
Adac Corporation 617 935-6668												
1023AD	16	8	100 KHz	80					100 meg	70		
1032ADC	32	16		80					20 meg			
Analogic Corporation 508 977-3000												
Adam-846												
Opto 22 714 891-5861												
PAMUX-AC6	512	512	40KHz	>120	Y	128	4	4	1 meg	-65	2 yrs	$75/chnl
Phoenix Data, Inc. 602 278-8528												
6412	512	256	50 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6413	512	256	25 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6414	512	256	10 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6415	512	256	5 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6416	512	256	5 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6712	512	256	65 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6713	512	256	60 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6714	512	256	20 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6715	512	256	20 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6716	512	256	10 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6812	512	256	125 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6813	512	256	80 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6814	512	256	70 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6815	512	256	65 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6816	512	256	50 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6912	256	128	400 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6912H	256	128	400 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6912HS	64	64	400 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6912S	64	64	325 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6912THS	64	64	500 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6912UH	256	128	1000 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6912UHS	32	32	1000 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6912VH	256	128	750 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6912VHS	32	32	800 KHz	80	Y	4Kx16 FIFO	4	4	100 meg	80	90 d	
6913	256	128	220 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6913H	256	128	325 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6913HS	64	64	325 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6913S	64	64	250 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6913THS	64	64	500 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6913UH	256	128	1000 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6913UHS	32	32	1000 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6913VH	256	128	650 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6913VHS	32	32	650 KHz	80	Y	4Kx16 FIFO	4	4	100 meg	80	90 d	
6914	256	128	220 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6914H	256	128	325 KHz	80	Y	4Kx16 FIFO	16	8	-100 meg	80	90 d	
6914HS	64	64	325 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6914S	64	64	200 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	

ANALOG-to-DIGITAL CONVERSION

Model	# of Single Ended Channels	# of Differential Channels	Throughput Rate	Crosstalk Rejection (dbm)	MPU	Data Buffer Size (Bytes)	# of Single Ended Starters	# of Differential Starters	Input Impedance	Typical Diff. (CMRR)	Warranty	Price
Phoenix Data, Inc. 602 278-8528												
6914THS	64	64	500 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6914UH	256	128	1000 KHz	80	Y	4Kx16 FIFO	16	8	100 meg	80	90 d	
6914UHS	32	32	1000 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6914VH	256	128	650 KHz	80	Y	4Kx16 FIFO	16	8	100 meg	80	90 d	
6914VHS	32	32	650 KHz	80	Y	4Kx16 FIFO	4	4	100 meg	80	90 d	
6915	256	128	220 KHz	80	Y	4Kx16 FIFO	16	8	100 meg	80	90 d	
6915H	256	128	325 KHz	80	Y	4Kx16 FIFO	16	8	100 meg	80	90 d	
6915HS	64	64	325 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6915S	64	64	175 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6915THS	64	64	500 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6915UH	256	128	1000 KHz	80	Y	4Kx16 FIFO	16	8	100 meg	80	90 d	
6915UHS	32	32	1000 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6915VH	256	128	650 KHz	80	Y	4Kx16 FIFO	16	8	100 meg	80	90 d	
6915VHS	32	32	650 KHz	80	Y	4Kx16 FIFO	4	4	100 meg	80	90 d	
6916	256	128	110 KHz	80	Y	4Kx16 FIFO	16	8	100 meg	80	90 d	
6916S	64	64	100 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6916THS	64	64	200 KHz	80	Y	4Kx16 FIFO	8	8	100 meg	80	90 d	
6916VH	256	128	300 KHz	80	Y	4Kx16 FIFO	16	8	100 meg	80	90 d	
7115		8-128	10 KHz	80	Y				100 meg	100	90 d	
7116		8-128	10 KHz	80	Y				100 meg	100	90 d	
7215		8-128	20 KHz	80	Y				100 meg	100	90 d	
7315		8-128	30 KHz	80	Y				100 meg	100	90 d	
7415		8-128	40 KHz	80	Y				100 meg	100	90 d	
7515		8-128	50 KHz	80	Y				100 meg	100	90 d	
8012		8-128	20 KHz	100	Y				100 meg	80	90 d	
Preston Scientific 714 776-6400												
8200AU												$19,050
DASMV												$38,000
EM113					Y							
EM213					Y							
EM313					Y							
GMAD1A									>10 meg			
GMAD2A												
GMAD3A												
GMAD4A												
GMAD5A									>10 meg			
Sigma Information Systems 714 630-6553												
SID-ADV11	32	16		>80	N				100 meg		1 yr	$1,200
Tektronix, Inc. 503 627-7111												
50M10												$895

DIGITAL-to-ANALOG DEVICES

Model	# of Channels	Analog Resolution (Bit)	Digital Input	Analog Accuracy	Analog Linearity	Output Impedance	Settling Time (us)	Output Drive (min)	Differential Linearity	Gain and Offset	Warranty	Price
Adac Corporation 617 935-6668												
1412DA	4	12				<.10 ohms	5-50					
Phoenix Data, Inc. 602 278-8528												
DDRDAC 4013	2	13	TTL/CMOS	.01%	.015%	<.02 ohms	25	±5	Monotonic	5	90 d	
DDRDAC 4014	2	14	TTL/CMOS	.01%	.015%	<.02 ohms	25	±5	Monotonic	5	90 d	
DDRDAC 4015	2	15	TTL/CMOS	.01%	.015%	<.02 ohms	25	±5	Monotonic	5	90 d	
DDRDAC 4016	2	16	TTL/CMOS	.01%	.015%	<.02 ohms	25	±5	Monotonic	5	90 d	
DDRDAC 4113	2	13	TTL/CMOS	.01%	.015%	<.02 ohms	10	±5	Monotonic	5	90 d	
DDRDAC 4114	2	14	TTL/CMOS	.01%	.015%	<.02 ohms	10	±5	Monotonic	5	90 d	
DDRDAC 4115	2	15	TTL/CMOS	.01%	.015%	<.02 ohms	10	±5	Monotonic	5	90 d	
DDRDAC 4116	2	16	TTL/CMOS	.01%	.015%	<.02 ohms	10	±5	Monotonic	5	90 d	
QDAC 1270	4	12	TTL/CMOS	.01%	.012%	<.02 ohms	3	±10	Monotonic	30	90 d	
Preston Scientific 714 776-6400												
GMDAC-2		12										
GMDAC-2		16										
LCDAC12	64	12										
SDAC-16		16										
Tektronix, Inc. 503 627-7111												
50M20		12									90 d	$910

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- **52,063** with managerial/supervisory titles
- **23,129** OEMs

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Analog-to-Digital Conversion

ADAC Corporation

■ **1023AD**
16 Single Ended Channels • 8 Differential Ended Channels • 70 Typical Differential CMRR
Plugs into the host backplane to provide very high speed, high level analog to digital conversion for Q-bus based systems.

■ **1032ADC**
32 Single Ended Channels • 16 Differential Ended Channels
Plugs into the host backplane to provide very high speed, high level analog to digital conversion.

Analogic Corporation

■ **Adam-846**
The Adam-846 uses a proprietary recirculating-flash architecture to achieve a 333KHz sampling rate, high accuracy and linearity. It also features a built-in sample and hold amplifier.

Opto 22

■ **PAMUX-AC6**
512 Single Ended Channels • 512 Differential Ended Channels • -65 Typical Differential CMRR • 128 Buffer Size • $75 per channel
High speed expandable I/O system for digital/analog applications. Works with the DEC DRV11-J device to provide up to 512 points of industrial I/O.

Phoenix Data, Inc.

■ **6412**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size
Compatible with UNIBUS, Q-bus, and BIbus systems.

■ **6413**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6414**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6415**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6416**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6712**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6713**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6714**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6715**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6716**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6812**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6813**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6814**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6815**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6816**
512 Single Ended Channels • 256 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6912**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6912H**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6912HS**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6912S**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6912THS**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6912UH**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6912UHS**
32 Single Ended Channels • 32 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6912VH**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6912VHS**
32 Single Ended Channels • 32 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6913**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6913H**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6913HS**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6913S**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6913THS**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6913UH**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6913UHS**
32 Single Ended Channels • 32 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6913VH**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6913VHS**
32 Single Ended Channels • 32 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6914**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6914H**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6914HS**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6914S**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6914THS**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6914UH**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6914UHS**
32 Single Ended Channels • 32 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6914VH**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6914VHS**
32 Single Ended Channels • 32 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6915**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6915H**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6915HS**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6915S**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6915THS**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6915UH**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6915UHS**
32 Single Ended Channels • 32 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6915VH**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6915VHS**
32 Single Ended Channels • 32 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6916**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6916S**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6916THS**
64 Single Ended Channels • 64 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size

■ **6916VH**
256 Single Ended Channels • 128 Differential Ended Channels • 80 Typical Differential CMRR • 4KBx16 FIFO Buffer Size
The 6900 Series is equipped with simultaneous sample and hold modules. A single-ended analog input is not recommended above 13-bits of resolution.

■ **7115**
8-128 Differential Ended Channels • 100 Typical Differential CMRR

■ **7116**
8-128 Differential Ended Channels • 100 Typical Differential CMRR

■ **7215**
8-128 Differential Ended Channels • 100 Typical Differential CMRR

■ **7315**
8-128 Differential Ended Channels • 100 Typical Differential CMRR

■ 7415
8-128 Differential Ended Channels • 100 Typical Differential CMRR

■ 7515
8-128 Differential Ended Channels • 100 Typical Differential CMRR
The 7000 Series is used when the level of analog input signals is variable and the operator wishes to maintain resolution. This series is able to switch channels, determine the gain range, and perform a 15-bit A to D conversion in less than 20ms. Finally, this series is capable of auto or programmable gain ranging, where the gain ranges may be preprogrammed by the operator (1 to 128), through the host interface.

■ 8012
8-128 Differential Ended Channels • 80 Typical Differential CMRR
The 8000 Series is used when the level of anaolg inpput signals is variable and the operator wishes to maintain resolution. It also features automatic (2.5KHz) or programmed (20KHz) gain selection, from one to 1,024 in 11 binary steps. The automatic ranging mode provides the system with a binary floating point capability. Series 6000, 7000, and 8000 were designed to address individual channels, and then convert each channel's analog input to digital form, thereby outputting a digitized word to the host interface.

Preston Scientific

■ 8200AU
$19,050
The 8300AU is a multichannel instrumentation amplifier system that combines optimum versatility and accuracy wtih digital control of gain, bandwidth and calibration.

■ DASMV
$38,000
Designed for MicroVAX systems this "turnkey" high-speed realtime data acquisition system provides multistation control and display capabilities for optimum operator flexibility in test cell applications.

■ EM113

■ EM213

■ EM313

■ GMAD1A
Supports Differential Ended Channels

■ GMAD2A

■ GMAD3A

■ GMAD4A

■ GMAD5A
Supports Differential Ended Channels

Sigma Information Systems

■ SID-ADV11
32 Single Ended Channels • 16 Differential Ended Channels • $1,200

Tektronix, Inc.

■ 50M10
$895

Analog I/O

ADAC Corporation

■ 1021
16 Analog Channels • 12 ADC Bits • 12 DAC Bits
Provides high speed, high level multiplexed analog to digital conversion with program and interrupt interfaces to the LSI-11 system.

■ 1114AD
8-16 Analog Channels • 12 ADC Bits • 12 DAC Bits

■ 600/11 AD
8-64 Analog Channels • 12 ADC Bits • 12 DAC Bits • 100KHz Throughput Rate • $1,865
The 600/11 AD is also equipped with a program control/program interrupt interface.

■ 600/11 DA
8-64 Analog Channels • 12 ADC Bits • 12 DAC Bits • 100KHz Throughput Rate • $800
The 600/11 DA contains a scope control and power converter. Requires a W1 cable.

■ 635/11 AD
8-64 Analog Channels • 12 ADC Bits • 12 DAC Bits • 35KHz Throughput Rate • $1,535

■ 635/11 AL
8-64 Analog Channels • 12 ADC Bits • 12 DAC Bits • 20KHz Throughput Rate • $1,645
The 635/11 AL is also equipped with a program control/program interrupt interface. Filtering is also provided to minimize noise interference.

Data Translation, Inc.

■ DT2751
2 Analog Channels • 12 ADC Bits • 12 DAC Bits • 100KHz Throughput Rate • $2,240
Features DMA for high level inputs with 22-bit addressing and continuous performance data acquisition.

■ DT2752
8-16 Analog Channels • 12 ADC Bits • 12 DAC Bits • 50KHz Throughput Rate • $2,360
Features DMA for high level inputs. Options include programmable gains of 1, 2, 4, and 8, and 125-250KHz throughput.

■ DT2757
4 Analog Channels • 16 ADC Bits • 16 DAC Bits • 100KHz Throughput Rate • $3,920
Features DMA for high level inputs with 22-bit addressing and continuous performance data acquisition.

■ DT2762-PGH
8-16 Analog Channels • 12 ADC Bits • 12 DAC Bits • 40KHz Throughput Rate • $1,370
Features bit-maskable interrupt on change for low byte and programmable realtime clock. Options include programmable gain (-PGH), gains of 1, 2, 4, and 8, 4-20mA inputs for 8DI channels, as well as 16-bit resolution with programmable gain, 2.5KHz throughput, and 8DI analog input channels.

■ DT2766
4 Analog Channels • 12 ADC Bits • 12 DAC Bits • 333KHz Throughput Rate • $1,260

■ DT2781-PGH
8-16 Analog Channels • 12 ADC Bits • 12 DAC Bits • 40KHz Throughput Rate • $1,765

■ DT3362
8-16 Analog Channels • 12 ADC Bits • 12 DAC Bits • 50KHz Throughput Rate • $3,455

■ DT3366
4-8 Analog Channels • 12 ADC Bits • 12 DAC Bits • 50KHz Throughput Rate • $3,485
The DT3362 and 3366 feature DMA for high level inputs and a 4 RAM channel-gain list for programmable channel and gain selection.

■ DT3369
2 Analog Channels • $3,110
Advanced architecture 128KB RAM board that includes a standard Q-bus interface, 22-bit memory addressing, and an external port interface compatible with the DT336x boards.

■ DT3382-PGH
2 Analog Channels • 12 ADC Bits • 12 DAC Bits • 50KHz Throughput Rate • $3,455
Features DMA for high level inputs with 22-bit addressing and continuous performance data acquisition. Includes 4 RAM channel-gain list for programmable channel and gain selection.

DIAN Micro Systems, Ltd.

■ DMS511/512
64 Analog Channels • 12 ADC Bits • 12 DAC Bits • 25KHz Throughput Rate • $800
Features Q-bus program I/O interrupt interface logic and 22-bit address compatibility. I/O module library available.

Opto 22

■ OPTOMUX
16 Analog Channels • 12 ADC Bits • 12 DAC Bits • 600Hz Throughput Rate • $75 per channel
Industrial I/O system which attaches to the serial port of any DEC computer. Provides up to 4096 points of analog and digital industrial I/O.

Preston Scientific

■ HL-8
8-64 Analog Channels
The HL-8 is a simultaneous sample-and-hold/multiplexer card designed for systems that have a large number of analog inputs. Features high density packaging.

Zonic Corporation

■ 7000 ASC-I
8-1000 Analog Channels • 12 ADC Bits • 700Kbps Throughput Rate • $10,000+

■ 7000 ASC-O
2-10 Analog Channels • 14 DAC Bits • $4,000+
The 7000 Series allows VAX computers to become realtime data acquisition systems with up to 1000 input channels and sample rates up to 300,000 samples per second on all channels, simultaneously.

Digital-to-Analog Conversion

ADAC Corporation

■ 1412DA
4 Channels • 12-bit Resolution
Plugs directly into the Q-bus backplane to provide digital to analog conversion functions, featuring scope control and a third-wire remote sense option.

Phoenix Data, Inc.

■ DDRDAC 4013
2 Channels • 13-bit Resolution • .015% Linearity

■ DDRDAC 4014
2 Channels • 14-bit Resolution • .015% Linearity

■ DDRDAC 4015
2 Channels • 15-bit Resolution • .015% Linearity

■ DDRDAC 4016
2 Channels • 16-bit Resolution • .015% Linearity

■ DDRDAC 4113
2 Channels • 13-bit Resolution • .015% Linearity

■ DDRDAC 4114
2 Channels • 14-bit Resolution • .015% Linearity

■ DDRDAC 4115
2 Channels • 15-bit Resolution • .015% Linearity

■ DDRDAC 4116
2 Channels • 16-bit Resolution • .015% Linearity

■ QDAC 1270
4 Channels • 12-bit Resolution • .012% Linearity
Multichannel D-A system capable of multiple digital-to-analog conversion. Converts processed digital words to analog voltages for purposes of displaying converted data or supplying signals for analog control.

Preston Scientific

■ GMDAC-2
12-bit Resolution
The GMDAC-2 also features short circuit protected outputs.

■ GMDAC-2
16-bit Resolution

■ LCDAC12
64 Channels • 12-bit Resolution
The LCDAC12 features internal reference capabilities as well as output amplifiers. A separate controller provides up to 512 digital channels.

■ SDAC-16
16-bit Resolution
The SDAC-16 features a 500KHz update rate.

Tektronix, Inc.

■ 50M20
12-bit Resolution • $910

Digital I/O

Data Translation, Inc.

■ **DT2781-PGH**
16 Input Channels • 16 Output Channels • 2 Supported Channels • 40KHz Throughput Rate • $1,765

Opto 22

■ **OPTOMUX**
16 Input Channels • 16 Output Channels • 4096 Supported Channels • 1600 cps Throughput Rate • $28 per channel
Distributed industrial I/O system that attaches to the serial port of any DEC computer. Provides up to 4096 points of analog and digital industrial I/O.

■ **PB32**
32 Input Channels • 32 Output Channels • 32 Supported Channels • 100KHz Throughput Rate • $457
Attaches to the 64 point DRV11-J and provides a direct ribbon cable attachment of up to 64 points of optically isolated digital I/O.

Phoenix Data, Inc.

■ **DIS 9000**
512 Input Channels • 400KHz/ch Throughput Rate
The DIS 9000 is an expansion input subsystem and has all the functionalities of the IDIS 9000.

■ **DOS 9000**
512 Output Channels
The DOS 9000 is an expansion output subsystem and features all the functionalities of the IDIS 9000.

■ **IDIS 9000**
512 Input Channels • 400KHz/ch Throughput Rate

■ **IDIS 9000**
512 Input Channels • 400KHz/ch Throughput Rate
The IDIS 9000 is capable of accepting digital input signals over a wide range of voltage levels. These inputs are grouped into 16-bit words and transferred to the host through a DMA port via a PDI compatible interface. Consult factory for information regarding intelligent MPUs, Universal Computer Interfaces, and combining input/output subsystems.

■ **IDOS 9000**
512 Output Channels
The IDOS 9000 receives 16-bit data words from a CPU selected DMA port via a PDI compatible interface and stores the data in registers which control open collector output drivers. These drivers control individual circuits which may be operated over a wide range of voltages and feature high sink current, transient suppression, high breakdown voltage, and output clamp diodes.

Tektronix, Inc.

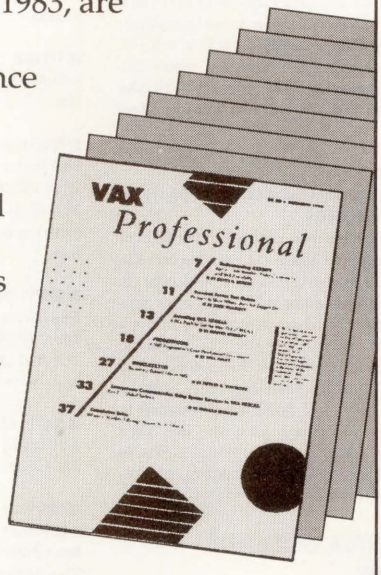
■ **50M30**
16 Supported Channels • $495

■ **50M50**
2 Supported Channels • $995
The 50M50 is a 16KB digital I/O device that may be configured as a single 16-bit I/O port or as two 8-bit I/O ports. It may be programmed to input or output data on two different channels or to input data on one channel and output data on the other.

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A Software Journal for VMS

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BG9VS

POWER CONDITIONERS

Model	Type of Phase	# of Poles	Input Voltage	Input Type	Output Type	Output Voltage	Maximum kVA	# of Total Amps	Dimensions (wxhxd)	Warranty	Price
Computer Accessories Corporation 619 457-5500											
U5											
Computer Power, Inc. 800 526-5088											
Utiline I	S		120/480			120/408	25		11x6x8	5 yrs	$139+
Utiline II	S		120			120	1.2		12x11x7	5 yrs	$368+
Controlled Power Company 800 521-4792											
Series 500	T		208/240/480			208/240/480	150			1 yr	
Series 500D	S/T		208/240/480			208/240/480	50			1 yr	
Series 600D	S/T		208/240/480			208/240/480	150			1 yr	
Series 700	S/T		120/208/240			120/208/240	500			1 yr	
Series 700D	S/T		208/240/480			120/240	45			1 yr	
Series 800D	S		208/240/480			208/240/480	25			1 yr	
Emerson Computer Power 714 545-5581											
MicroPower II			120/240			120/240	10		12x20x16		
Everest Electronic Equipment 404 995-8688											
MPD1510											$195
MPD1510-R											$195
MPD1520											$195
Isoreg Corporation 508 486-9483											
ISOREG Series	T		208/240/480			208/240/480	75			1 yr	
ISOREG Series	S		120/208/240			120/208/240	125			1 yr	
ISOSHIELD Series	T		480			120/208	300			1 yr	
MCG Electronics, Inc. 516 586-5125											
1800B-120Y	S/T		120/208	AC		120/208			14x16x6	2 yrs	$3,985
290	S		120	AC	4/AC	120		15A	4.1x5.1x2.2	2 yrs	$84.95
292	S		120	AC	4/AC	120		10A	4.1x5.1x2.2	2 yrs	$124.95
293	S		120	AC	4/AC	120		15A	4.1x5.1x2.2	2 yrs	$104.95
294	S		120	AC	4/AC	120		10A	4.1x5.1x2.2	2 yrs	$134.95
296	S		120	AC	6/AC	120		15A	3x2x18	2 yrs	$104.95
298	S		120	AC	6/AC	120		10A	3x2x18	2 yrs	$134.95
DLP-3.1			25	DC	1/DC	25			1.8x.6x2.1	2 yrs	$48
DLP-36			6-200	DC		6-200				2 yrs	$880
DLP-4.2			6-200	DC	1/DC	6-200				2 yrs	$76
DLP-5.1			6	DC	1/DC	6			4.2x.75x1.1	2 yrs	$76
DLP-5.2			6	DC	1/DC	6			4.2x.75x1.1	2 yrs	476
DLP-50			6-200	DC		6-200				2 yrs	$780+
DLP1-10/20/30			6-120	DC		6-120				2 yrs	$58+
SPB-120T	S		120/240	AC		120/240			8x8x4	2 yrs	
SPB-120Y	T		120	AC		120			8x8x4	2 yrs	
Rapid Power Technologies 203 775-0411											
PowrDrive	S						120			1 yr	
PowrTap	S		≤600				5		24x29x20	1 yr	
PurePowr II	S		≤600				5		38x34x22	1 yr	
MPC Series	S						3				$525
SPC Series	S						15				$2,495

POWER CONDITIONERS

Model	Type of Phase	# of Poles	Input Voltage	Input Type	Output Type	Output Voltage	Maximum kVA	# of Total Amps	Dimensions (wxhxd)	Warranty	Price
RTE Deltec Corporation 619 291-4211											
TPC Series	T		208			120/208	45				$7,295
Safe Power Systems, Inc. 602 894-6864											
PLC-1000	S	6	95-130	60Hz	60Hz	120	1	8.3	10.7x10.9x17.6	1 yr	$749
PLC-2000	S	6	95-130	60Hz	60Hz	120	2	16.7	10.7x10.9x17.6	1 yr	$1,077
PLC-250	S	4	95-130	60Hz	60Hz	120	.25	2	6.3x8x11.4	1 yr	$319
PLC-500	S	4	95-130	60Hz	60Hz	120	.5	4.2	7.5x9x13.61	1 yr	$495
PLC-750	S	6	95-130	60Hz	60Hz	120	.75	6.3	7.5x10.6x15.6	1 yr	$649
Shape Magnetronics, Inc. 203 726-1411											
LineTamer	S/T		120/208/480			120/208/480	75			5 yrs	$139+
Sola Electric 312 439-2800											
EPC							15				$550+
EPC Series	S		120/208/240			120/208/240	2		8.5x8.75x12	1 yr	$550
Hardwired EPC			120/240/480			120/240/480	15		15x20x20	1 yr	$3,189
Hardwired MCR			120/240/480	AC		120/208/240	15		16.44x9.08x10.56	5 yrs	$226
MCR			120			120	3		16.8x11.38x10.62	5 yrs	$157
Square D Company 619 279-0831											
Line 1	S		120/208/240			120/208	3		6.6x6.2x13.8	1 yr	$520
Line 2	S		220/230/240			220/230/240	15		20x29x16	1 yr	$3,500+
Line 2	T		208/480			120/208	30		38x36x24	1 yr	$9,835+
Line 2 (P3)	S		220/230/240			220/230/240	3		6.5x6.3x13.5	1 yr	$635+
P5	T		208			208	100		36x32x24	1 yr	$8,395+
P8	S		120/208/240			120/208/240	2			1 yr	$160
The Superior Electric Company 203 582-9561											
BCR series	S		120/208/240			120/208/240	10				
PPC 150	S		95-132			120	.150		6.75x5.75x10.62		$145
PPC 300	S		95-132			120	.300		6.75x5.75x10.62		$195
PPC 450	S		95-132			120	.450		8.37x6.87x12.25		$225
PPC 600	S		95-132			120	.600		8.37x6.87x12.25		$295
PPC Series	S		95-132			95-132	.6				
WHC series	S/T		208/380/480				100				
Transtector Systems, Inc. 800 635-2537											
ACP 3000-120W	T		120/208				360	1000	20x16x6		
ACP 3900-120W	T		120/208				360	1000	20x16x6		
ACP 5000-150W	T		120/208				700	2000	24x30x8		
SA 3900-120W	T		120/208				36	100	30x24x8		

POWER DISTRIBUTION CONTROLLERS

Model	Hertz	Full Load (VA)	Input Voltage	# of Outlets	Type of Phase	Input Connectors (NEMA)	Circuit Breaker	Filter EMI/RFI	Output Connectors (NEMA)	Power Cable	Warranty	Price
Computer Power Products 213 323-1231												
CPP012KVA		12K	208/380/480		T							$5,000
CPP1000KVA		1000K	208/380/480		T							$150,000
Controlled Power Company 800 521-4792												
Series 7000	60	225K	208-480	126	T		Y	Y		N	1 yr	
Deltron, Inc. 215 699-9261												
PowerMedic							Y				1yr	
Eltec, Inc. 714 241-1331												
Topaz VRS		15K	208/480		T							$5,137
Topaz VRS		100K	208/480		T							$41,090
Everest Electronic Equipment 404 995-8688												
MPD861-C	50-60	28.8K	120	12	S	L5-30P	Y	Y/-	5-15R	Y	1 yr	$535
MPD872-D	50-60	28.8K	120	10	S	L5-30P	Y	Y/-	5-15R	Y	1 yr	$425
MPD874-D	50-60	28.8K	120	8	S	L5-30P	Y	Y/-	5-20R	Y	1 yr	$585
International Power Machines Corporation 214 272-8000												
PDU	60		208/480	252	T		Y	*/*		Y	1 yr	
Isoreg Corporation 508 486-9483												
GuardsMan												
Marway Products, Inc. 714 973-1800												
MPC 871A	50/60	1440	120	5	S	5-15P	Y	Y/-	5-15R	Y	1 yr	
MPC 871B	50/60	2880	240	6	S	6-15P	Y	Y/-	6-15R	Y	1 yr	
MPC 872C	50/60	3840	240	10	S	L6-20P	Y	Y/-	6-20R	Y	1 yr	
MPC 872D	50/60	2880	120	10	S	L5-30P	Y	Y/-	5-20R	Y	1 yr	
MPC 872E	50/60	3840	120/240	10	S/T	L14-20P	Y	Y/-	5-15R	Y	1 yr	
MPC 874A	50/60	3880	120/240	8	S/T	L14-20P	Y	Y/-	5-15R	Y	1 yr	
MPC 874B	50/60	3840	240	8	S	L6-20P	Y	Y/-	6-20R	Y	1 yr	
MPC 874D	50/60	2880	120	8	S	L5-30P	Y	Y/-	5-20R	Y	1 yr	
MPC 874E	50/60	5760	240	8	S	L6-30P	Y	Y/-	6-20R	Y	1 yr	
MPC 877B	50/60	2880	120/240	6	S	6-15P	Y	Y/-	6-15R	Y	1 yr	
MPC 877D	50/60	2880	120	6	S	L5-30P	Y	Y/-	5-20R	Y	1 yr	
MPC 877E	50/60	5760	240	6	S	L6-30P	Y	Y/-	6-20R	Y	1 yr	
MPD 115	50/60	2400	120	12	S	L5-30P	Y	Y/-	5-15R	Y	1 yr	
MPD 208A	50/60	3600	120	18	T	L21-30P	Y	Y/-	5-15R	Y	1 yr	
MPD 230	50/60	6900	230	12	S	L6-20P	Y	Y/-	6-15R	Y	1 yr	
MPD 416A	50/60	4800	240	18	T		Y	Y/-	6-15R	Y	1 yr	
MPD 861A	50/60	3840	120/240	12	S/T	L14-30P	Y	Y/-	5-20R	Y	1 yr	
MPD 861B	50/60	3840	240	12	S	L6-20P	Y	Y/-	6-20R	Y	1 yr	
MPD 861C	50/60	3840	120	12	S	L5-30P	Y	Y/-	5-20R	Y	1 yr	
Power Techniques, Inc. 805 685-0533												
PT-1000	60		120	10	S	5-15P	Y	Y/-	5-15R	Y	18 m	$317+
PT-2000	60		120	10	S	L5-30P	Y	Y/-	5-30R	Y	18 m	$405
PT-2000	60		120	10	S	L5-30P	Y	Y/-	5-30R	Y	18 m	$445
PT-500	60		120	8/10	S	5-15R	Y	Y/-	5-15R	Y	18 m	$195
PT-8740	60		120	10	S	L5-30P	Y	Y/-	5-20R	Y	18 m	$424
PT-8740	60		120	10	S	L5-30P	Y	Y/-	6-20R	Y	18 m	$424
Pulizzi Engineering, Inc. 714 540-4229												
PC 300-C	50/60	8640	120/208	14	T	L21-30P	Y	Y/Y	5-15	Y	1 yr	$1,198
PC 861-E	47-63	5760	180/270	12	S		Y	Y/Y	6-20R	Y	1 yr	$682
PC115-A	47-63	1440	90/135	12	S	5-15P	Y	Y/-	5-15R	Y	1 yr	$276

POWER DISTRIBUTION CONTROLLERS

Model	Hertz	Full Load (VA)	Input Voltage	# of Outlets	Type of Phase	Input Connectors (NEMA)	Circuit Breaker	Filter EMI/RFI	Output Connectors (NEMA)	Power Cable	Warranty	Price
Pulizzi Engineering, Inc. 714 540-4229 (continued)												
PC115-B	47-63	2880	180/270	12	S		Y	Y/-	6-15R	Y	1 yr	$380
PC125-A	47-63	1440	90/135	10	S	5-15P	Y	Y/-	5-15R	Y	1 yr	$293
PC125-B	47-63	2880	180/270	10	S		Y	Y/-	6-15R	Y	1 yr	
PC125-C	47-63	2880	90/135	10	S	L5-30P	Y	Y/-	5-15R	Y	1 yr	$385
PC125-D	47-63	2880	90/135	10	S	L5-30P	Y	Y/-	5-20R	Y	1 yr	$420
PC125-E	47-63	5760	180/270	10	S		Y	Y/-	6-20R	Y	1 yr	$549
PC125-F	47-63	5760	180/270	10	S		Y	Y/-	6-15R	Y	1 yr	$420
PC861-A	47-63	1440	90/135	12	S	5-15P	Y	Y/-	5-15R	Y	1 yr	$406
PC861-B	47-63	2880	180/270	12	S		Y	Y/-	6-15R	Y	1 yr	$458
PC861-C	47-63	2880	90/135	12	S	L5-30P	Y	Y/Y	5-15R	Y	1 yr	$492
PC861-D	47-63	2880	90/135	12	S	L5-30P	Y	Y/Y	5-20R	Y	1 yr	$492
PC861-F	47-63	5760	180/270	12	S		Y	Y/Y	6-15R	Y	1 yr	$539
PC861-G	47-63	2880	125/250	12	S	L14-30P	Y	Y/-	5-15R	Y	1 yr	$530
PC874-A	47-63	1440	90/135	10	S	5-15P	Y	Y/-	5-15R	Y	1 yr	$418
PC874-B	47-63	2880	180/270	10	S		Y	Y/-	6-15R	Y	1 yr	$469
PC874-C	47-63	2880	90/135	10	S	L5-30P	Y	Y/-	5-15R	Y	1 yr	$520
PC874-D	47-63	2880	90/135	10	S	L5-30P	Y	Y/-	5-20R	Y	1 yr	$525
PC874-E	47-63	5760	180/270	10	S		Y	Y/-	6-20R	Y	1 yr	$686
PC874-F	47-63	5760	180/270	10	S		Y	Y/-	6-15R	Y	1 yr	$558
TPC 981-A	47-63	1440	90/135	12	S	5-15P	Y	Y/Y	5-15R	Y	1 yr	$184
TPC 981-B	47-63	2880	180/270	12	S		Y	Y/Y	6-15R	Y	1 yr	$251
TPC 981-C	47-63	2880	90/135	12	S	L5-30P	Y	Y/Y	5-15R	Y	1 yr	$287
TPC 981-D	47-63	2880	90/135	12	S	L5-30P	Y	Y/Y	5-20R	Y	1 yr	$289
TPC 981-E	47-63	5760	180/270	12	S		Y	Y/Y	6-20R	Y	1 yr	$406
TPC 981-F	47-63	3840	180/270	12	S		Y	Y/Y	6-15R	Y	1 yr	$307
TPC115-10A/MTD	47-63	1440	90/132	10	S	5-15P	Y	Y/-	5-15R	Y	1 yr	$436
TPC115-10B/MTD	47-63	2880	189/264	10	S		Y	Y/-	6-15R	Y	1 yr	$519
TPC115-10C/MTD	47-63	2880	90/132	10	S	L5-30P	Y	Y/-	5-15R	Y	1 yr	$526
TPC115-10D/MTD	47-63	2880	90/132	10	S	L5-30P	Y	Y/-	5-20R	Y	1 yr	$558
TPC115-10E/MTD	47-63	5760	189/264	10	S		Y	Y/-	5-20R	Y	1 yr	$676
TPC115-10F/MTD	47-63	5760	189/264	10	S		Y	Y/-	6-15R	Y	1 yr	$562
TPC115-8-A	47-63	1440	90/135	8	S	5-15P	Y	Y/-	5-15R	Y	1 yr	$160
TPC115-8-B	47-63	2880	180/270	8	S		Y	Y/-	6-15R	Y	1 yr	$248
TPC115-8-C	47-63	2880	90/135	8	S	L5-30P	Y	Y/-	5-15R	Y	1 yr	$269
TPC115-8-D	47-63	2880	90/135	8	S	L5-30P	Y	Y/-	5-20R	Y	1 yr	$296
TPC115-8-E	47-63	5760	180/270	8	S		Y	Y/-	6-20R	Y	1 yr	$390
TPC115-8-F	47-63	3840	180/270	8	S		Y	Y/-	6-15R	Y	1 yr	$286
Sigma Information Systems 714 630-6553												
SA-H156	47-63	1.9K	128/256	5	S		Y	Y/-		Y	1 yr	$206
Sutton Designs, Inc. 607 277-4301												
ZX-5000			115		S							$69-190
The Superior Electric Company 203 582-9561												
BCR1205U	50/60		120/208/220		S		Y					
BCR1207U	50/60		120/208/220		S		Y					
BCR1210U	50/60	10K	120/208/220		S		Y					
BCR3103U	50/60	3K	120/208/220		S		Y					

UPS SYSTEMS

Model	Type of Phase	Output Power Ratings (VA)	Input Voltage	Output Efficiency	Total Harmonic Distribution	Output Voltage	Input Frequency (Hz)	Output Frequency (Hz)	Dimensions (wxhxd)	Output Overload	MTBF (hrs)	Price
Abacus Controls, Inc. 201 526-6010												
514-3	S	10K	240	85%	2%	240	50	50	22x51x30	150%	43.3K	$11,800
514-4	S	10K	240	85%	2%	240	60	60	22x51x30	150%	43.3K	$11,800
533-3	S	3K	220	85%	2%	220	50	50	19x8.75x20	150%	43.3K	$4350
533-4	S	3K	120	85%	2%	120	60	60	19x8.75x20	150%	43.3K	$4350
933-3	S	3K	220	85%	2%	220	50	50	15.2x31.25x22.2	150%	43.3K	$4700
933-4	S	3K	120	85%	2%	120	50/60	50/60	15.2x31.25x22.2	150%	43.3K	$4,700
953-3	S	5K	220	85%	2%	220	50	50	18.1x42x25.7	150%	43.3K	$6100
953-4	S	5K	240	85%	2%	240	60	60	18.1x42x25.7	150%	43.3K	$6100
Anasco Corporation 508 777-8888												
85-962-330	S	.33K	115						4.7x6.6x14.2			$499
85-962-450	S	.45K	115						4.7x6.6x14.2			$799
85-962-800	S	.8K	115						4.7x6.6x14.2			$1,099
AT&T Microelectronics 508 626-3729												
1 KVA	S	1K	98-156		<5%	108-127	59-61	59-61	12x20x15			
10 KVA	S	10K	208/240	87%	<6%	120/208	60	60	20x61.25x30			
10 KVA	T	10K	208	86%	<5%	208	59-61	60	27x65x30			
20 KVA	T	20K	208	86%	<5%	208	59-61	60	37x65x30			
3 KVA	S	3K	120/240	87%	<6%	120	60	60	20x32.5x30			
5 KVA	S	5K	208/240	87%	<6%	120/208	60	60	20x32.5x30			
500VA	S	500	108-136		<6%	103-136	57-63	59-61	11x4.4x18			
Atlas Energy Systems 714 863-0900												
Ultrapower Rotary	T	10K	208-480									$44,000
Ultrapower Rotary	T	1000K	208-480									$350,000
Beaver Electronic Laboratory, Inc. 617 585-5666												
BBU-912	S	.1K	115/230				60		19.5.25x19			$1,395
Behlman Engineering 805 684-8311												
H-1000	S		117				60	60				
H-1500	S	1.5K	117				60	60				$4,290
H-2000	S	2K	117				60	60				$5,175
H-3000	S		117				60	60				
H-5000	S	5K	117				60	60				$10,400
H-750	S	.75K	117				60	60				$2,975
Best Power Technology, Inc. 800 356-5794												
FC10KVA	S	10K	208/240	91%	5%	120/240	60	60	23x42x30	125%	62K	$9,525
FC15KVA	S	15K	208/240	92%	5%	120/240	60	60	23x42x30	125%	62K	$10,995
FC3KVA	S	3K	120/240	90%	5%	120/240	60	60	17x33x30	125%	62K	$4,995
FC5KVA	S	5K	120/240	91%	5%	120/240	60	60	17x33x30	125%	62K	$6,995
FC7.5KVA	S	7.5K	208/240	90%	5%	120/240	60	60	23x42x30	125%	62K	$8,575
MD1.5KVA	S	1.5K	120	88%	5%	120	60	60	15.25x20.25x23	125%	62K	$2,895
MD1KVA	S	1K	120	88%	5%	120	60	60	15x15x20	125%	62K	$1,845
MD2KVA	S	2K	120	90%	5%	120/240	60	60	15.25x20.25x23	125%	62K	$3,695
MD350VA	S	350	120	79%	5%	120	60	60	10x12x21.25	125%	>62K	$895
MD500VA	S	500	120	79%	5%	120	60	60	10x12x21.25	125%	62K	$995
MD750VA	S	750	120	86%	5%	120	60	60	15x15x20	125%	>62K	$1,595
QFC10KVA	S	10K	220/240	91%	5%	220/240	50	50	23x42x30	125%	62K	$10,950
QFC15KVA	S	15K	220-240	92%	5%	220-240	50	50	23x42x30	125%	62K	$12,650
QFC3KVA	S	3K	220-240	90%	5%	220-240	50	50	17x33x30	125%	62K	$5,750
QFC5KVA	S	5K	220/240	88%	5%	220/240	50	50	17x33x30	125%	62K	$8,050

UPS SYSTEMS

Model	Type of Phase	Output Power Ratings (VA)	Input Voltage	Output Efficiency	Total Harmonic Distribution	Output Voltage	Input Frequency (Hz)	Output Frequency (Hz)	Dimensions (wxhxd)	Output Overload	MTBF (hrs)	Price
Best Power Technology, Inc. 800 356-5794 (continued)												
QFC7.5KVA	S	7.5K	220-240	90%	5%	220-240	50	50	23x42x30	125%	62K	$9,850
QMD1.5KVA	S	1.5	220/240	85%	5%	220/240	50	50	15.25x20.25x23	125%	62K	$3,325
QMD1KVA	S	1K	220/240	85%	5%	220/240	50	50	15x15x20	125%	62K	$2,150
QMD2KVA	S	2K	220/240	90%	5%	220/240	50	50	15.25x20.25x23	125%	>62K	$4,250
QMD350VA	S	350	220/240	76%	5%	220/240	50	50	10x12x21.25	125%	>62K	$1,050
QMD500VA	S	500	220-240	78%	5%	220-240	50	50	10x12x21.25	125%	62K	$1,150
QMD750VA	S	750	220/240	83%	5%	220/240	50	50	15x15x20	125%	>62K	$1,825
QRC3KVA	S	3K	220/240	90%	5%	220/240	50	50	16.5x15.1x26	125%		$6,325
QRC5KVA	S	5K	220/240	88%	5%	220/240	50	50	16.5x15.1x26	125%	>62K	$8,850
QRM1.5KVA	S	1.5K	220-240	85%	5%	220-240	50	50	16x10x26	125%	62K	$3,650
QRM1KVA	S	1K	220/240	84%	5%	220/240	50	50	16.5x15.1x26	125%	62K	$2,750
QRM2KVA	S	2K	220/240	90%	5%	220/240	50	50	16x10x26	125%	>62K	$4,675
RC3KVA	S	3K	120/240	90%	5%	120/240	60	60	16.5x15.1x26	125%	>62K	$5,495
RC5KVA	S	5K	120/240	91%	5%	120/240	60	60	16.2x15.1x26	125%	>62K	$7,695
RM1.5KVA	S	1.5K	120	88%	5%	120	60	60	16x10x26	125%	>62K	$3,185
RM1KVA	S	1K	120	88%	5%	120	60	60	16x10x26	125%	62K	$2,395
RM2KVA	S	2K	120	90%	5%	120	60	60	16x10x26	125%		$4,065
Clary Corporation 818 287-6111												
ONGUARD PC 2400	S	800	120	85%		120	50/60	50/60	5.9x9.8x15.7			$1,590
ONGUARD PC 1240	S	400	120	85%		120	50/60	50/60	15.8x1.9x15			$950
ONGUARD PC 1.2KVA	S	1250	120	85%		120	50/60	50/60	5.9x9.8x19.7			$2,390
ONGUARD SL 400	S	400	120	85%		120	50/60	50/60	17.7x3.15x15.7			$1,290
ONGUARD SL 800	S	800	120	85%		120	50/60	50/60	17.7x3.15x15.7			$1,690
ONGUARD 1.2kVA	S	1.2K	120			120	50/60	50/60	9.5x16.5x28.5			$3,750
ONGUARD 1.5kVA	S	1.5K	120			120	50/60	50/60	9.5x16.5x28.5			$4,350
ONGUARD 1kVA	S	1K	120			120	50/60	50/60	9.5x16.5x28.5			$3,450
ONGUARD 2.5kVA	S	2.5K	120			120	50/60	50/60	9.5x18.5x28.5			$6,090
ONGUARD 2kVA	S	2K	120			120	50/60	50/60	9.5x18.5x28.5			$5,590
ONGUARD 3.75kVA	S	3.75K	115			115	50/60	50/60	9.5x18.5x28.5			$7,050
ONGUARD 3kVA	S	3K	120			120	50/60	50/60	9.5x18.5x28.5			$6,550
ONGUARD 800VA	S	800	120			120	50/60	50/60	9.5x16.5x28.5			$2,990
ONGUARD JR 600VA	S	600	120			120	50/60	50/60	9.5x15x18			$1,790
ONGUARD JR 800VA	S	800	120			120	50/60	50/60	9.5x15x18			$1,990
10k-1A-SBS	S	10K	115/230			115/230	60	60	55x72x27			
15K-1A	T	15K	120/208			120/208	60	60	55x72x27			
22.5K-1A	T	22.5K	120/208			120/208	60	60	68x72x27			
30K-1A	T	30K	120/208			120/208	60	60	68x72x27			
37.5K-1A	T	37.5K	120/208			120/208	60	60	68x72x27			$36,500
5k-1A-SBS	S	5K	115			115	60	60	25.5x53.5x26			
7.5k-1A-SBS	S	7.5K	115/230			115/230	60	60	55x72x27			
Computer Accessories Corporation 619 457-5500												
PowerSaver Plus U5												
Computer Power Products 213 323-1231												
MRU025	T	25K	208-480						80x72x25			$35,000
MRU050	T	50K	208-480						80x72x25			$55,000
SRU075	T	75K	208-480						128x79x41			$49,000
SRU1000	T	1000K	208-480						128x79x41			$270,000

UPS SYSTEMS

Model	Type of Phase	Output Power Ratings (VA)	Input Voltage	Output Efficiency	Total Harmonic Distribution	Output Voltage	Input Frequency (Hz)	Output Frequency (Hz)	Dimensions (wxhxd)	Output Overload	MTBF (hrs)	Price
Computer Power, Inc. 800 526-5088												
ComputerSave Mark II	S	16.6K	120	90%	5%	120	60	60	12.5x12.5x21	150%	80K	$2,219+
ComputerSave Mark III	T	50K	120/208	87-90%	5%	120/208	60	60	42x72x19	150%	80K	$18,906+
Defender Long Run Series	S	1K	120	97%	5%	120	60	60	6.5x13x13	150%		$601+
Defender Series	S	1.2K	120	98%	5%	120	60	60	8x17x21	150%		$626+
HI-REL	S	10K	120	75%	5%	120	60	60	42x60.5x12	130%	80K	$3,678+
Pulsector	S	3-10K	120	80%	3%	120	60	60	42x50x19	130%	80K	$5,406+
Series 36	S	1.5K	120	75%	5%	120	60	60	32x32x12.7	130%	80K	$3,168+
Survivor	S	10K										
TriMax	T	400K	120/208	82-89%	3%	120/208	60	60	58x56x23	150%	100K	$26,065+
Controlled Power Company 800 521-4792												
Series 1000	S	2-25K	120-240	95%		120-240	60	60	21.5x30x34	120%		$3,900+
Series 1000D	S	24K	120-240	95%	5%	120-240	60	60	21.5x30x34	125%		$13,000
Cuesta Systems Corporation 805 541-4160												
DataSaver 200		250	120			102-132	60	60	6x4x9			$495
DataSaver 400		500	120			102-132	60	60	13x2x13			$695
DataSaver 600		750	120			102-132	60	60	15x2.3x17.75			985
DataSaver 90		110	120			102-132	60	60	6x4x9			$350
Cyberex, Inc. 800 631-1236												
Mini-UPS	S/T	7.5K	208		3.3%	120/240	60	60	38x55x26	125%		$10,000+
Series IV	T	50K	208/480	90%	5%	208/480	60	60	42x77x30	120%		
SIII/Plus	T	30K	208/480	85%	5%	120/208	60	60	38x77x34	300%		$22,500+
SIII/Plus	S/T	30K	208/480		5%	120	60	60	38x77x34	150%		$40,000+
DataShield 408 438-0946												
SS400	S	.4K	120	80%	5%	120	60	60	18x3x17	300%	20K	$1,025
SS700	S	.7K	120	80%	5%	120	60	60	18x3x17	300%	20K	$1,250
Deltron, Inc. 215 699-9261												
Series FL		1.5K	120		5%	120	60	60				
Series NL		1.5K	120		5%	120	60	60				
Series TP		5K	120		5%	120	60	60				
Elgar Corporation 800 854-2213												
103-3B	T	10K	120/208	80%	5%	120/208	57-63	60	78x41x31	125%	20K	$25,465
502-1T-02	S	5K	120/240	78%	5%	120/240	50/60	50/60	24x40x30	125%	25K	$9,995
IPS 1100	S	1.1K	120-240	90%	5%	120-240	50/60	50/60	17x15x11		30K	$1,295
IPS 1600	S	1.6K	120-240	90%	5%	120-240	50/60	50/60	17x15x11		30K	$1,695
IPS 400+600	S		120	90%	5%	120	60	60	2.3x16x16.5		30K	$745
IPS 560	S	560	120-240	90%	5%	120-240	50/60	50/60	14x17x9		30K	$995
Eltec, Inc. 714 241-1331												
Deltec	S/T	5K	120-480									$5,690
Deltec	S/T	25K	120-480									$25,000
Emerson Computer Power 714 545-5581												
AP1000-1500	S	1.5K	120			120	60	60	20.5x8.5x15.5			$1,798
AP1000-200	S	200	120			120	60	60	8x6x14.5			$412
AP1000-300	S	300	120			120	60	60	20.5x8.5x10			$550
AP1000-800	S	800	120			120	60	60	20.5x8.5x15.5			$998
AP115	S		120	80%	5%	120	60	60	27.8x15x22.2	120%	75K	$3,800
AP115	S	1.5K	120			120	60	60				$3,800+
AP130			120/240	80%	5%	120/240	60	60	27.8x15x22.2	120%	75K	$6,000
AP161	S	3K	120	80%	5%	120	60	60	53.5x25.6x18.7	150%	250K	$8,000

UPS SYSTEMS

Model	Type of Phase	Output Power Ratings (VA)	Input Voltage	Output Efficiency	Total Harmonic Distribution	Output Voltage	Input Frequency (Hz)	Output Frequency (Hz)	Dimensions (wxhxd)	Output Overload	MTBF (hrs)	Price
Emerson Computer Power 714 545-5581 (continued)												
AP166		5K	208/240	80%	5%	120/240	60	60	53.5x41x18.7	150%	250K	$11,000
AP176		10K	208/240	82%	5%	120/240	60	60	53.5x41x18.7	150%	250K	$16,000
AP320	T	15K	208/480	82%	5%	208/480	60	60	36x72x26	150%	20K	$20,000+
AP340	T	30K	208/480	85%	5%	208/480	60	60	36x72x26	150%	20K	$24,000+
AP355	T	50K	208/480	87%	5%	208/480	60	60	62x72x28	150%	20K	$33,000+
AP365	T	75K	208/480	88%	5%	208/480	60	60	62x72x28	150%	20K	$40,000+
PC-ET	S	720	120			120	60	60	15x2.3x14.8			$995
SW1000	S	1K	120			120	60	60	2.3X17X18.3			$698
UPS 1250	S	1.25K	120			120	60	60				$1,398
UPS 600	S	600	120			120	60	60				$798
Exide Electronics 919 872-3020												
10-10	S	10K	220-240	83%		220-240	50	50				
10-10	S	10K	208/240	83%		120/240	60	60				
10-6	S	6K	220-240	83%		220-240	50	50				
10-6	S	6K	208/240	83%		120/240	60	60				
10-8	S	8K	220-240	83%		220-240	50	50				
10-8	S	8K	208/240	83%		120/240	60	60				
125-100	T	100K	400	91%		400	50	50				
125-100	T	100K	480	91%		208/480	60	60				
125-100	T	125K	480	92%		208/480	60	60				
125-62	T	62.5K	400	89%		400	50	50				
125-75	T	75K	480	90%		208/480	60	60				
125-75	T	75K	400	90%		400	50	50				
20-10	T	10K	120	88%	4%	120	60	60	33x43x35	150%		
20-10	T	10K	220-240	88%	4%	220-240	50	50	33x43x35	150%		
20-15	T	15K	220-240	88%	4%	220-240	50	50	33x43x35	150%		
20-15	T	15K	120	88%	4%	120	60	60	33x43x35	150%		
20-20	T	20K	120	88%	4%	120	60	60	33x43x35	150%		
20-20	T	20K	220-240	88%	4%	220-240	50	50	33x43x35	150%		
6	S	6K	208/240	83%		120-240	60	60				
General Power Corporation 714 956-9321												
GPS 15K	T	15K	208-480						27x66.5x30			
GPS 37.5K	T	37.5K	208-480						30x66.5x33			
U1000	S	1K	120-240	84%	3%	120-240	60	60	19x20.5x8.27	150%	>100K	$2,400
U10000	S	10K	120-240	86%	3%	120-240	60	60	37x18x32	150%	>100K	$11,500
U3000	S	3K	120-240	85%	3%	120-240	60	60	22x25x22	150%	>100K	$5,000
U5000	S	5K	120-240	86%	3%	120-240	60	60	30x15x31	150%	>100K	$7,000
V-12	T	12.5	208-480	85%	3%	208-480	60	60	22.25x31.5x62	150%	100K	$16,000
V-18	T	18.75	208-480	87%	3%	208-480	60	60	22.2x31.5x70.5	150%	>100K	$23,000
V-30	T	30K	208-480	89%	3%	208-480	60	60	27.2x31.5x70.5	150%	100K	$32,000
V-45	T	45K	208-480	89.5%	3%	208-480	60	60	33.5x31.5x70.5	150%	100K	$38,000
V-62	T	62.5K	208-480	90%	3%	208-480	60	60	33.5x31.5x70.5	150%	100K	$42,000
Gotec, Ltd. 061 446-2171												
MaxiPower	T	150K										
MicroPower	S	2K										
HDR Power Systems, Inc. 614 771-5500												
HDR 1300	T	5K	208									$11,000
HDR 1300	T	30K	208									$24,000

UPS SYSTEMS

Model	Type of Phase	Output Power Ratings (VA)	Input Voltage	Output Efficiency	Total Harmonic Distribution	Output Voltage	Input Frequency (Hz)	Output Frequency (Hz)	Dimensions (wxhxd)	Output Overload	MTBF (hrs)	Price
HDR Power Systems, Inc. 614 771-5500 (continued)												
HDR 1400-10	S	10K	120-240	93%		120-240	60	60	26x62x36			
HDR 1400-15	S	15K	120-240	93%		120-240	60	60	26x62x36			
HDR 1400-5	S	5K	120-240	93%		120-240	60	60	26x40x36			
HDR 1400-7.5	S	7.5K	120-240	93%		120-240	60	60	26x62x36			
HDR 3100	T	10K	208									$21,500
HDR 3100	T	100K	208									$60,000
Hitron Corporation 201 782-5525												
BA0279-00-03	T	10K	480						46x68x30			$19,485
BA0280-00-03	T	15K	480						46x68x30			$24,350
BA0281-00-03	T	20K	480						46x68x30			$29,070
ICS, Inc. 312 543-6200												
E-PAC/10	T	10K	120-480	85%	>5%	120/240	60	60	75x54x30	150%		$15,950
E-PAC/15	S	15K	120-480	85%	>5%	120/240	60	60	75x66x30	150%		$18,550
E-PAC/2.0	S	2K	120-480	85%	>5%	120/240	60	60	51x36x18	150%		$6,995
E-PAC/20	S	20K	120-480	85%	>5%	120/240	60	60	75x72x30	150%		$22,975
E-PAC/3.0	S	3K	120-480	85%	>5%	120/240	60	60	51x27x30	150%		$8,695
E-PAC/5.0	S	5K	120-480	85%	>5%	120/240	60	60	75x36x30	150%		$11,975
E-PAC/7.5	S/T	7.5K	120-480	85%	>5%	120/240	60	60	75x42x30	150%		$13,200
M95-1000	S	1K	120	90%	5%	120	60	60	28x10x22			$2,780
M95-200	S	200	120	90%	5%	120	60	60	32x16x8	200%		$1,455
M95-200	S	200	120	90%	5%	120	60	60	20x16x16.5	200%		$1,235
M95-3000	S	3K	120	90%	5%	120	60	60	29x12x22			$7,400
M95-600	S	600	120	90%	5%	120	60	60	24x20x11.5			$1,695
SB 400	S	400	115			115	60	60	8x5.5x11.5			$449
SB 400LB	S	400	115			115	50	50	8x5.5x11.5			$495
SB 800	S	800	115			115	60	60	8x5.5x11.5			$795
Imunelec, Inc. 516 364-8122												
Series 11												
Series 31		20K	120/208						89x73x30			$29,782
International Computer Power 818 443-7557												
RotopPlus	S/T	1-10K	120-480			120-480			24x48x30			
International Power Machines Corporation 214 272-8000												
DP100	T	100K	208/480	85%	5%	208/480	50/60	50/60	70x78x35	105%		
DP125	T	125K	208/480	87%	5%	208/480	50/60	50/60	110x78x35	105%		
DP150	T	150K	208/480	87%	5%	208/480	50/60	50/60	110x78x35	105%		
DP20	T	20K	208/480	78%	5%	208/480	50/60	50/60	70x78x35	105%		
DP225	T	225K	208/480	90%	5%	208/480	50/60	50/60	110x78x35	105%		
DP25	T	25K	208/480	80%	5%	208/480	50/60	50/60	70x78x35	105%		
DP300	T	300K	208/480	91%	5%	208/480	50/60	50/60	110x78x35	105%		
DP38	T	38K	208/480	81%	5%	208/480	50/60	50/60	70x78x35	105%		
DP400	T	400K	480/380	91%	5%	480/380	50/60	50/60	210x78x35	105%		
DP50	T	50K	208/480	81%	5%	208/480	50/60	50/60	70x78x35	105%		
DP500	T	500K	480/380	91%	5%	480/380	50/60	50/60	210x78x35	105%		
DP600	T	600K	480/380	91%	5%	480/380	50/60	50/60	210x78x35	105%		
DP75	T	75K	208/480	84%	5%	208/480	50/60	50/60	70x78x35	105%		
EP100	T	100K	208/480	90.5%	5%	208/480	50/60	50/60	128x76x32	105%		
EP133	T	133K	208/480	90.5%	5%	208/480	50/60	50/60	128x76x32	105%		
EP167	T	167K	208/480	90.5%	5%	208/480	50/60	50/60	128x76x32	105%		

UPS SYSTEMS

Model	Type of Phase	Output Power Ratings (VA)	Input Voltage	Output Efficiency	Total Harmonic Distribution	Output Voltage	Input Frequency (Hz)	Output Frequency (Hz)	Dimensions (wxhxd)	Output Overload	MTBF (hrs)	Price
International Power Machines Corporation 214 272-8000 (continued)												
EP32	T	32K	208/480	87%	5%	208/480	60	60	64x76x32	105%		
EP64	T	64K	208/480	88%	5%	208/480	50/60	50/60	64x76x32	105%		
SP18	T	18.75K	208/480	87%	3%	208/480	60	60	38.5x72x31.5	125%		
SP30	T	30K	208/480	87%	3%	208/480	60	60	38.5x72x31.5	125%		
Isoreg Corporation 508 486-9483												
ISOGUARD	S	5K	120/240			120/240	60	60	21x30x25	125%		
ISOGUARD	S	3K	120/240			120/240	60	60	11x30x25	125%		
ISOGUARD	S	2K	120/240			120/240	60	60	18x28x29	125%		
ISOGUARD	S	1K	120/240			120/240	60	60	8x22x28	125%		
ISOGUARD	T	62.5K	208			120/208	60	60	33.25x70.25x31.75	125%		
ISOGUARD	T	45K	208			120/208	60	60	33.25x70.25x31.75	125%		
ISOGUARD	T	30K	208			120/208	60	60	27.25x70.25x31.75	125%		
ISOGUARD	T	18.75K	208			120/208	60	60	27.25x70.25x31.75	125%		
ISOGUARD	T	12.5K	208			120/208	60	60	22.25x61.75x31.75	125%		
Liebert Corporation 614 888-0246												
PPC	T	75K	480		5%	480	60	60				
Series 300	T	75K	208/480		5%	208/480	60	60		125%		
Lortec Power Systems, Inc. 216 327-5050												
ContinuAC		160K										$5,000+
UPS Single Phase	S	2-5K	120-240						4.7x6.6x14.2			$4,995+
UPS Three Phase	T	160K	208/480									$17,500+
Northern Pacific Power Devices 415 866-9415												
UPS 650		.65K	120									$1,595
Nova Electric, Inc. 201 661-3434												
GC11-10K60	S	10K	120-480	85%	<3%	120-480	60	60	42x61x20	150%	30K	$14,910
GC11-15K60	S	15K	208-480	80%	<5%	120-480	60	60	22x45x22	150%	30K	
GC11-5K60	S	5K	120-480	85%	<3%	120-480	60	60	22x37x22	150%	30K	$9,495
GC11-7.5K60	S	7.5K	120-480	80%	<3%	120-480	60	60	22x37x22	150%	30K	$13,230
GR11-3K60	S	3K	120-240	85%	<3%	120-240	50/60	50/60	19x8.75x21	150%	30K	$4,995
Panamax 800 472-5555												
PowerMax		450							4.7x14.2x6.6			
PowerMax		800							7.7x14.5x11.5			
PowerMax		1.2K							7.7x14.5x11.5			
Precise Power Corporation 813 746-3515												
15-60	T	15K	208-480	81%	3%	208-480	59-62	60	70x34x39	125%	>100K	$19,950
35-60	T	35K	208-480	84%	3%	208/480	59-62	60	70x34x39	125%	>100K	$29,950
PTI Industries 408 438-0946												
SS700	S	.7K	120				60	60	18x3x17			$1,199
RTE Deltec Corporation 619 291-4211												
4000 Series	S	1K	120	85%	5%	120	60	60	7x17x22	150%		
6000 Series	T	56K	208-480									$27,900+
7000 Series	S	10K	120-480						24x45x31			$5,195+
8000 Series	T	10-25K	208/480	95%	5%	208/480	60	60	24.7x45.1x31.9			
9000 Series	T	56.25K	120/208	95%	5%	120/208	60	60	32x55x32	125%		
Safe Power Systems, Inc. 602 894-6864												
UPS 1000	S	1K	120	73%	<3%	120	50/60	50/60	8.7x20x18.5	150%	100K	$2,995
UPS 2000	S	2K	120	73%	<3%	120	50/60	50/60	10.2x25.7x26.5	150%	100K	$4,495
UPS 3000	S	3K	120	73%	<3%	120	50/60	50/60	11.8x34.3x27.6	150%	100K	$6,495

UPS SYSTEMS

Model	Type of Phase	Output Power Ratings (VA)	Input Voltage	Output Efficiency	Total Harmonic Distribution	Output Voltage	Input Frequency (Hz)	Output Frequency (Hz)	Dimensions (wxhxd)	Output Overload	MTBF (hrs)	Price
Safe Power Systems, Inc. 602 894-6864 (continued)												
UPS 5000	S	5K	120	73%	<3%	120	50/60	50/60	17.7x47.3x27.6	150%	100K	$9,995
Sola Electric 312 439-2800												
1.5 Electronic		1.5-3K	120/240			120/240	60	60				$4,435+
Electronic 87 UPS		5-10K	120-480	85%	5%	120-480	60	60	32x25x46	110%		$9,640
Interact 57 Series		10-25K	120/208	95%	5%	120/208	60	60	38x25x46	115%		$21,800
Mini-UPS/2		.5-1K	120		2%	120	60	60	16x8.5x18.5		40K	$1,885
Mini-UPS/2		.5-1K	120		2%	120	60	60	16x8.5x18.5		40K	$1,885
PWM-UPS	S	3K	120				60	60	24x28x25			$6,560
Solidstate Controls, Inc. 614 846-7500												
PB4050-1	S	5K	120	79%	5%	120	60	60	26x50x30	125%	236K	$10,523
PB4050-3	T	5K	208	79%	5%	208	60	60	36x66x32	125%	236K	$15,330
PB4100-1	S	10K	120	81%	5%	120	60	60	28x58x30	125%	236K	$12,541
PB4100-3	T	10K	120/208	83%	5%	120/208	60	60	28x58x30	125%	236K	$18,948
PB4150-3	T	15K	120/208	83%	5%	120/208	60	60	36x66x32	125%	236K	$26,260
PB4200-3	T	20K	120/208	85%	5%	120/208	60	60	36x66x32	125%	236K	$29,413
PB5030-2	T	20K	208	83%	5%	208	60	60	36x66x32	125%	236K	$35,153
PB5030-4	T	30K	480	85%	5%	480	60	60	64x78x32	125%	236K	$35,153
PB5050-2	T	50	208	87%	5%	208	60	60	64x78x32	125%	236K	$37,976
PB5050-4	T	50K	480	87%	5%	480	60	60	64x78x32	125%	236K	$37,976
PB5075-2	S	75K	208	87%	5%	208	60	60	84x78x32	125%	236K	$53,200
PB5075-4	T	75K	480	90%	5%	480	60	60	84x78x32	125%	236K	$53,200
PB5100-2	T	100K	208	88%	5%	208	60	60	84x78x32	125%	236K	$53,200
PB5100-4	T	100K	480	90%	5%	480	60	60	84x78x32	125%	236K	$53,200
PB5150-4	T	150K	480	90%	5%	480	60	60	91x78x32	125%	236K	$76,023
PowerBase 1101	S	1K	120	74%	5%	120	60	60	10.2x27.5x19.7	120%	40K	$3,000
PowerBase 1103-3B	S	3K	208/240	74%	5%	208/240	60	60	17x60x22	130%	236K	$8,125
PowerBase 1103-3S	S	3K	120	75%	5%	120	60	60	17x45x22	130%	236K	$7,748
PowerBase 1103-6S	S	3K	120	75%	5%	120	60	60	17x60x22	130%	236K	$8,286
PowerBase 1103-B	S	3K	208/240	74%	5%	208/240	60	60	17x45x22	130%	236K	$7,742
PowerBase 1103-S	S	3K	120	75%	5%	120	60	60	17x30x22	130%	236K	$6,528
Square D Company 619 279-0831												
PowerMaker E/S	S/T	5-25K	120/240	84%	4%	120/240	60	60	27.5x52x30	125%		$27,220
PowerMaker Micro UPS	S	.4-1.3K	120		7%	120	60	60	7x15x18		80K	$835+
PowerMaker Mini	S	3-10K	120/240	87%	5%	120/240	50/60	50/60	19x36x30	200%		$6,450+
PowerMaker UPS		1.8	120-240	93%	2%	120-240	50/60	50/60	8.5x18x19	150%	80K	$2,890
Series 82000	S	1.5K	115	80%	5%	115	60	60		170%		$5,325
ULTRA-ISOLATOR	S/T	to 130K	120/240	95%	1%	120/240	50/60	50/60		200%		$12,510
Summus Computer Systems 713 492-6611												
Tosnic	S/T	.5 K	120/220	88%	3%	120/220	60	60	10x25x30	120%	18K	$3,599
Tosnic	S/T	1K	120/220	88%	3%	120/220	60	60		120%	18K	$2,299
Tosnic	S/T	2K	120/220	88%	3%	120/220	60	60		120%	18K	
Tosnic	S/T	5K	120/220	88%	3%	120/220	60	60		120%	18K	$8,299
Tosnic	S/T	50K	120/220	88%	3%	120/220	60	60		120%	18K	$26,000
Sutton Designs, Inc. 607 277-4301												
F Series	S	3.5K	115									$5,995
F Series	S	15K	115									$9,995
MM 1200SS	S	1440	120-240	>75%	<5%	120-240	60	60	17.9x12.2x7.2		30K	$1,599
MM 1600SS	S	1920	120-240	>75%	<5%	120-240	60	60	18.3x12.4x15.5		30K	$1,999

UPS SYSTEMS

Model	Type of Phase	Output Power Ratings (VA)	Input Voltage	Output Efficiency	Total Harmonic Distribution	Output Voltage	Input Frequency (Hz)	Output Frequency (Hz)	Dimensions (wxhxd)	Output Overload	MTBF (hrs)	Price
Sutton Designs, Inc. 607 277-4301 (continued)												
MM 250Z	S	300	120-240	>75%		120-240	50/60	50/60	10.5x6.8x4.8		30K	$399
MM 300SS	S	360	120-240	>75%	<5%	120-240	60	60	15x9.5x5.5		30K	$549
MM 500Z	S	600	120-240	>75%		120-240	50/60	50/60	19x10.6x6.3		30K	$699
MM 600SS	S	360	120-240	>75%	<5%	120-240	60	60	15x9.5x5.5		30K	$899
MM-900SS			117		5%	117	60	60	12.4x7.1x18.3			$1,299
ZX-5000 Series	S	1.8K	120-240	>99%		120-240	50/60	50/60			100K	
ZX-5000 Series	S	7.2K	120-240	>99%		120-240	50/60	50/60			100K	$190
The Superior Electric Company 203 582-9561												
Stabiline 200VA/500V	S	200-500	95-135				60	60	15x7.92x15.81			
Toshiba/Houston 800 231-1412												
500VA-50KVA	S/T	.5-50K	120/240	80%	<3%	120/240	50/60	50/60		150%	100K	
Transtector Systems, Inc. 800 635-2537												
UP2S 1000	S	1K	120		2%	120	60	60	10.5x24.25x28	150%		
Viteq Corporation 301 731-0400												
15A	S	1.5K	90-140	75%	5%	120	60	60	9x10x21.5		40K	$3,195
386/LAN	S	750	90-140	75%	5%	120	60	60	8x11.5x19.5		48K	$1,895
MINI/GP	S/T	3K	120/240	75%	<5%	120/240	60	60	13x20x20		30K	$7,750

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Power Conditioners

Computer Accessories Corporation

■ **U5**

Computer Power, Inc.

■ **Utiline I**
120/480 Input Voltage • 120/408 Output Voltage • 25kVA • $139+
Features an AC line conditioner/isolator regulator for lightning protection.

■ **Utiline II**
120 Input Voltage • 120 Output Voltage • 1.2kVA • $368+
Features an AC line conditioner/isolator regulator for lightning protection.

Controlled Power Company

■ **Series 500**
208/240/480 Input Voltage • 208/240/480 Output Voltage • 150kVA
The 500 model is utilized where simple regulation, rather than isolation, of the line voltage is required.

■ **Series 500D**
208/240/480 Input Voltage • 208/240/480 Output Voltage • 50kVA
Same as the Series 500. In addition, the 500D features exchangeable receptacle panels for easy computer room installations.

■ **Series 600D**
208/240/480 Input Voltage • 208/240/480 Output Voltage • 150kVA
The 600D protects sensitive electronic equipment against transients and noise with the added installation advantage of exchangeable output receptacle panels and distribution cables.

■ **Series 700**
120/208/240 Input Voltage • 120/208/240 Output Voltage • 500kVA
The 700 Series regulates the line voltage and reduces noise and transients.

■ **Series 700D**
208/240/480 Input Voltage • 120/240 Output Voltage • 45kVA
The 700D model conditions the power going to the equipment with the abiliaty to add or change receptacles and distribution cables. There is also a 208/120 output power rating available.

■ **Series 800D**
208/240/480 Input Voltage • 208/240/480 Output Voltage • 25kVA
The 800D regulates, isolates, and has a single-cycle ride-through capability as well as exchangeable receptacles and cables.

Emerson Computer Power

■ **MicroPower II**
120/240 Input Voltage • 120/240 Output Voltage • 10kVA
Designed for minis and word processors; features isolated primary and secondary wiring, a double shielded isolation transformer, fast response to voltage fluctuations via electronically controlled tap switching.

Everest Electronic Equipment

■ **MPD1510**
$195
Features a high performance EMI filter, transient supression, and a magnetic circuit breaker and requires a 115V electrical rating.

■ **MPD1510-R**
$195
Same as the MPD1510; however, also available with options including a remote control capability that provides eight switched and two unswitched receptacles and a remote connector with a three pin Molex.

■ **MPD1520**
$195
Features a high performance EMI filter, transient supression, and a magnetic circuit breaker and requires a 230V electrical rating.

Isoreg Corporation

■ **ISOREG Series**
208/240/480 Input Voltage • 208/240/480 Output Voltage • 75kVA

■ **ISOREG Series**
120/208/240 Input Voltage • 120/208/240 Output Voltage • 125kVA
The ISOREG Series protects against brown-outs, voltage spikes and sags. Alternative choice for power protection when a UPS is not required. Also available in 50Hz models and other voltages.

■ **ISOSHIELD Series**
480 Input Voltage • 120/208 Output Voltage • 300kVA
Protects computers against many types of voltage spike, electrical noise, and ensures complete electrical isolation of equipment from raw utility power. Also available in 50Hz models and other voltages.

MCG Electronics, Inc.

■ **1800B-120Y**
120/208 Input Voltage • 120/208 Output Voltage • $3,985
The 1800B-120Y (Surge Master Series) of facility-level surge protectors is available in voltages from 120 to 480, single phase or three phase, delta or wye configuration. Prices vary.

■ **290**
120 Input Voltage • 120 Output Voltage • $84.95
Four-outlet surge suppressor for computers, faxes, copiers, CAD systems, desktop publishing systems, etc. Absorption capability is 640 joules.

■ **292**
120 Input Voltage • 120 Output Voltage • $124.95
Four-outlet surge suppressor for computers, faxes, copiers, CAD systems, desktop publishing systems, etc. Absorption capability is 720 joules.

■ **293**
120 Input Voltage • 120 Output Voltage • $104.95
Four-outlet surge suppressor for computers, faxes, copiers, CAD systems, desktop publishing systems, etc. Absorption capability is 640 joules.

■ **294**
120 Input Voltage • 120 Output Voltage • $134.95
Four-outlet surge suppressor for computers, faxes, copiers, CAD systems, desktop publishing systems, etc. Absorption capability is 720 joules.

■ **296**
120 Input Voltage • 120 Output Voltage • $104.95
Six-outlet power and surge suppression strip with on/off switch, wiring integrity test, and circuit breaker. Absorption capability is 640 joules.

■ **298**
120 Input Voltage • 120 Output Voltage • $134.95
Six-outlet surge suppressor strip with on/off switch, wiring integrity test and circuit breaker. Absorption capability is 720 joules.

■ **DLP-3.1**
25 Input Voltage • 25 Output Voltage • $48
This RS232 data line protector offers 25-pin D-sub connectors to easily plug into any RS232 port. Protects against over voltages, transients, and spikes.

■ **DLP-36**
6-200 Input Voltage • 6-200 Output Voltage • $880
This PABX protector is a wall mount unit available in clamp voltages from 6V to 200V, for telephone or data lines. Features standard 50-pin telephone connectors.

■ **DLP-4.2**
6-200 Input Voltage • 6-200 Output Voltage • $76
Features RJ-11 jacks for dial-up (tip and ring) and leased line (DLP-4.4) modems and computers for protection against data line over voltages. Clamp voltages from 6V to 200V are available.

■ **DLP-5.1**
6 Input Voltage • 6 Output Voltage • $76
High speed video or data line protector, featuring BNC connectors.

■ **DLP-5.2**
6 Input Voltage • 6 Output Voltage • 476
High speed video or data line protector, featuring trinaxial connectors and 10V clamping.

■ **DLP-50**
6-200 Input Voltage • 6-200 Output Voltage • $780+
Telephone or data line protector that mounts in a 19" rack. Each protection board (at $630 each) is capable of protecting up to 50 wires. Protects RS232, RS423 or 20mA current loop interfaces. Protection lines may be mixed and matched.

■ **DLP1-10/20/30**
6-120 Input Voltage • 6-120 Output Voltage • $58+
The DLP Series consists of the DLP-10, a two-wire protector, the DLP-20, a 4-wire protector, and the DLP-30, an 8-wire protector. Protects against transient over voltages, spikes, and lightning. Available in clamping levels from 6V to 120V.

■ **SPB-120T**
120/240 Input Voltage • 120/240 Output Voltage
Shunt installed, AC line surge suppressor for 120/240VAC, single phase circuits. Protects computer room equipment, laboratories and small offices. Many models available.

■ **SPB-120Y**
120 Input Voltage • 120 Output Voltage
Shunt-insalled, AC line surge suppressor for 120VAC, three phase, wye circuits. Protects computer room equipment, laboratories, or small offices. Many models available.

Rapid Power Technologies

PowrDrive
120kVA

■ **PowrTap**
≤600 Input Voltage • 5kVA

■ **PurePowr II**
≤600 Input Voltage • 5kVA
All PowrTap and PurePowr II models feature step-up/step-down capabilities, low output impedance and a total harmonic distortion below 1%.

RTE Deltec Corporation

■ **MPC Series**
3kVA • $525

■ **SPC Series**
15kVA • $2,495

■ **TPC Series**
208 Input Voltage • 120/208 Output Voltage • 45kVA • $7,295
The TPC Series features electronic top-switching technology.

Safe Power Systems, Inc.

■ **PLC-1000**
95-130 Input Voltage • 120 Output Voltage • 1kVA • $749

■ **PLC-2000**
95-130 Input Voltage • 120 Output Voltage • 2kVA • $1,077

■ **PLC-250**
95-130 Input Voltage • 120 Output Voltage • .25kVA • $319

■ **PLC-500**
95-130 Input Voltage • 120 Output Voltage • .5kVA • $495

■ **PLC-750**
95-130 Input Voltage • 120 Output Voltage • .75kVA • $649
Safe's regulating line conditioners are designed to protect against voltage disturbances, noise spikes, transients, and brown-outs.

Shape Magnetronics, Inc.

■ **LineTamer**
120/208/480 Input Voltage • 120/208/480 Output Voltage • 75kVA • $139+
This Series features ferroresonant technology.

Sola Electric

■ **EPC**
15kVA • $550+
This system combines state-of-the-art electronic sensing and control with an isolated transformer to achieve dynamic regulation and common- and transverse-mode noise rejection. Also features increased crest factor load handling capability. UPS models with battery backup are also available from $200 to $20,000.

Maximum Surge Protection:

MCG or Equivalent

The fact is, MCG has no equivalent. That's not hype, it's a fact backed by 20 years experience and the broadest line of AC protection in the industry.

MCG devices offer maximum surge protection; that's why they're specified more often, in more industries than all others.

Count on MCG to easily cross reference to any other brand unit. Count on MCG products for simple installation, redundant protection, and self-diagnostics on many of our line protectors. And count on MCG for the very best technical applications support.

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■ **EPC Series**
120/208/240 Input Voltage • 120/208/240 Output Voltage • 2kVA • $550
The EPC Series offers a high AC-to-AC efficiency of 95%, a zero current switching for high performance and reliability, and a large surge current capability.

■ **Hardwired EPC**
120/240/480 Input Voltage • 120/240/480 Output Voltage • 15kVA • $3,189
The Hardwired EPC Series features a high AC-to-AC efficiency of 96%, a zero current switching for high performance and reliability, and swivel casters that provide mobility.

■ **Hardwired MCR**
120/240/480 Input Voltage • 120/208/240 Output Voltage • 15kVA • $226

■ **MCR**
120 Input Voltage • 120 Output Voltage • 3kVA • $157
The Hardwired MCR and MCR Series provides regulation and isolation, suppresses transients, and protects from overloads.

Square D Company

■ **Line 1**
120/208/240 Input Voltage • 120/208 Output Voltage • 3kVA • $520
Protects microcomputers and other sensitive electronic devices against electrical noise and against consistently high or low voltage.

■ **Line 2**
220/230/240 Input Voltage • 220/230/240 Output Voltage • 15kVA • $3,500+

■ **Line 2**
208/480 Input Voltage • 120/208 Output Voltage • 30kVA • $9,835+

■ **Line 2 (P3)**
220/230/240 Input Voltage • 220/230/240 Output Voltage • 3kVA • $635+
The Line 2 Series provides maximum protection against electrical noise and voltage fluctuations. Equipped with an internal ULTRA-ISOLATOR noise suppressor and a PowerLogic microcomputer-controlled voltage regulator.

■ **P5**
208 Input Voltage • 208 Output Voltage • 100kVA • $8,395+
Designed for use when the computer is protected against common-mode noise and when protection against normal-mode noise and voltage fluctuations is typically lacking.

■ **P8**
120/208/240 Input Voltage • 120/208/240 Output Voltage • 2kVA • $160
First Topaz power conditioner to employ ferroresonant technology. Features true computer grade which makes it ideal for industrial applications.

The Superior Electric Company

■ **BCR Series**
120/208/240 Input Voltage • 120/208/240 Output Voltage • 10kVA
These units are capable of handling current surges to six times rated current without passing the surges on to rated equipment.

■ **PPC 150**
95-132 Input Voltage • 120 Output Voltage • .150kVA • $145
Plug-in type conditioner with four NEMA 5-15R output receptacles.

■ **PPC 300**
95-132 Input Voltage • 120 Output Voltage • .300kVA • $195
UL and CSA listed 300VA portable power conditioner. Plug-in type with four NEMA 5-15R output receptacles.

■ **PPC 450**
95-132 Input Voltage • 120 Output Voltage • .450kVA • $225
UL and CSA listed 450VA portable power conditioner. Plug-in type with six NEMA 5-15R output receptacles.

■ **PPC 600**
95-132 Input Voltage • 120 Output Voltage • .600kVA • $295
UL and CSA listed 600VA portable power conditioner. Plug-in type with six NEMA 5-15R output receptacles.

■ **PPC Series**
95-132 Input Voltage • 95-132 Output Voltage • .6kVA
UL and CSA list portable power conditioners housed in attractive cabinets and designed for easy electrical installation.

■ **WHC Series**
208/380/480 Input Voltage • 100kVA
A WHC Series Power is comprised of five basic modules: an input circuit breaker, a control module, a power module, an isolation transformer, and L-C filter network.

Transtector Systems, Inc.

■ **ACP 3000-120W**
120/208 Input Voltage • 360kVA

■ **ACP 3900-120W**
120/208 Input Voltage • 360kVA
The ACP Series features continuous monitoring of line voltages and a five nanosecond response to transient voltages. UL listed.

■ **ACP 5000-150W**
120/208 Input Voltage • 700kVA
Features non-operating detection with alarm and a voltage transient counter. UL listed.

■ **SA 3900-120W**
120/208 Input Voltage • 36kVA
Features proprietary Spatial Array noise filtration and Lattice Matrix suppression.

Power Distribution Controllers

Computer Power Products

■ **CPP012KVA**
$5,000

■ **CPP1000KVA**
$150,000

Controlled Power Company

■ **Series 7000**
60Hz • 126 Outlets
The Series 7000 monitors all power parameters and features power distribution centers with powerline conditioning.

Deltron, Inc.

■ **PowerMedic**

Eltec, Inc.

■ **Topaz VRS**
$5,137

■ **Topaz VRS**
$41,090

Everest Electronic Equipment

■ **MPD861-C**
50-60Hz • 12 Outlets • L5-30P Input Connectors • 5-15R Output Connectors • $535
Features local and remote switching via a DEC comptible control bus as well as over voltage transient protection.

■ **MPD872-D**
50-60Hz • 10 Outlets • L5-30P Input Connectors • 5-15R Output Connectors • $425
Features a remote front and rear control bus as well as transient protection.

■ **MPD874-D**
50-60Hz • 8 Outlets • L5-30P Input Connectors • 5-20R Output Connectors • $585
Features a remote control bus as well as transient protection.

International Power Machines Corporation

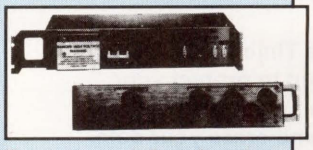
■ **PDU**
60Hz • 252 Outlets
Facilitates the interconnection of computers and peripherals. ETL listed in sizes from 30-225KVA. Available with a choice of 84, 168, or 252 pole positions for connections.

Isoreg Corporation

■ **GuardsMan**
Monitors and distributes power.

Marway Products, Inc.

MARWAY PRODUCTS INC.



Marway power controllers solve system integrator AC power problems in one convenient box. The power controller provides a single point of entry for AC power to the rack. EMI/RFI filtering, transient suppression and overload protection support the entire rack. Distribution outlets furnish AC to each system component in the rack. The DEC compatible control bus allows both local and remote On/Off control of the system. Additonal options offer sequential turn-on of multiple controllers and racks, special circuit breaker types and mandatory manual reset of the controller AC output on any power outage condition or emergency-off disable command.

■ **MPC 871A**
50/60Hz • 5 Outlets • 5-15P Input Connectors • 5-15R Output Connectors

■ **MPC 871B**
50/60Hz • 6 Outlets • 6-15P Input Connectors • 6-15R Output Connectors
The MPC 871A and 871B are direct replacements for DEC model 871. Also available with power failure on/off reset, and high inrush circuit breakers.

■ **MPC 872C**
50/60Hz • 10 Outlets • L6-20P Input Connectors • 6-20R Output Connectors

■ **MPC 872D**
50/60Hz • 10 Outlets • L5-30P Input Connectors • 5-20R Output Connectors

■ **MPC 872E**
50/60Hz • 10 Outlets • L14-20P Input Connectors • 5-15R Output Connectors
The MPC 872C, 872D, and 872E Series directly replaces the DEC model 872. Also available with on/off delay for controller sequencing, power failure on/off reset, and high inrush circuit breakers.

■ **MPC 874A**
50/60Hz • 8 Outlets • L14-20P Input Connectors • 5-15R Output Connectors

■ **MPC 874B**
50/60Hz • 8 Outlets • L6-20P Input Connectors • 6-20R Output Connectors

■ **MPC 874D**
50/60Hz • 8 Outlets • L5-30P Input Connectors • 5-20R Output Connectors

■ **MPC 874E**
50/60Hz • 8 Outlets • L6-30P Input Connectors • 6-20R Output Connectors
The MPC 874 Series directly replaces the DEC model 874. Also available with on/off delay for controller sequencing, power failure on/off reset, and high inrush circuit breakers.

■ **MPC 877B**
50/60Hz • 6 Outlets • 6-15P Input Connectors • 6-15R Output Connectors

■ **MPC 877D**
50/60Hz • 6 Outlets • L5-30P Input Connectors • 5-20R Output Connectors

■ **MPC 877E**
50/60Hz • 6 Outlets • L6-30P Input Connectors • 6-20R Output Connectors
The MPC 877 Series directly replaces the DEC model 877. Also available with on/off delay for controller sequencing, power failure on/off reset, and high inrush circuit breakers.

■ **MPD 115**
50/60Hz • 12 Outlets • L5-30P Input Connectors • 5-15R Output Connectors

■ **MPD 208A**
50/60Hz • 18 Outlets • L21-30P Input Connectors • 5-15R Output Connectors

MPD 230
50/60Hz • 12 Outlets • L6-20P Input Connectors • 6-15R Output Connectors

■ **MPD 416A**
50/60Hz • 18 Outlets • 6-15R Output Connectors
Optional features of the above MPD Series include special breaker trip curves, delay

control BUS output for power sequencing multiple controllers, and power fail-manual restart.

■ **MPD 861A**
50/60Hz • 12 Outlets • L14-30P Input Connectors • 5-20R Output Connectors

■ **MPD 861B**
50/60Hz • 12 Outlets • L6-20P Input Connectors • 6-20R Output Connectors

■ **MPD 861C**
50/60Hz • 12 Outlets • L5-30P Input Connectors • 5-20R Output Connectors
The MPD 861 Series directly replaces the DEC model 861. Also available with on/off delay for controller sequencing, power failure on/off reset, and high inrush circuit breakers.

Power Techniques, Inc.

■ **PT-1000**
60Hz • 10 Outlets • 5-15P Input Connectors • 5-15R Output Connectors • $317+
Features an optional remote on/off front panel (PT100RP), allowing a system to power up from the front panel within the system enclosure. The recessed mount unit is 8" in depth rather than 5.5" as in the flush mount configuration.

■ **PT-2000**
60Hz • 10 Outlets • L5-30P Input Connectors • 5-30R Output Connectors • $405
This model also features a time sequenced start-up and shutdown option. This is a 120V model.

■ **PT-2000**
60Hz • 10 Outlets • L5-30P Input Connectors • 5-30R Output Connectors • $445
This is a 240V model.

■ **PT-500**
60Hz • 8/10 Outlets • 5-15R Input Connectors • 5-15R Output Connectors • $195

■ **PT-8740**
60Hz • 10 Outlets • L5-30P Input Connectors • 5-20R Output Connectors • $424
This is a 120V model.

■ **PT-8740**
60Hz • 10 Outlets • L5-30P Input Connectors • 6-20R Output Connectors • $424
The Power Techniques line of power controllers are also available in 240VAC 50Hz models and feature optional IEC internal or external receptacles. Universal mounting brackets for recessed or flush mount configurations are also available. This line is UL recognized and CSA approved.

Pulizzi Engineering, Inc.

■ **PC 300-C**
50/60Hz • 14 Outlets • L21-30P Input Connectors • 5-15 Output Connectors • $1,198
UL recognized and is available with multiple time delay power-up. Standard features include EMI/RFI filtering, spike/surge protection, remote on/off control and emergency shut down.

■ **PC 861-E**
47-63Hz • 12 Outlets • 6-20R Output Connectors • $682
UL recognized and features remote on/off control, emergency shut-down and daisy chain capability. Also features time delay power up to prevent high inrush current, EMI/RFI filtering, and spike/surge protection.

■ **PC115-A**
47-63Hz • 12 Outlets • 5-15P Input Connectors • 5-15R Output Connectors • $276

■ **PC115-B**
47-63Hz • 12 Outlets • 6-15R Output Connectors • $380
The PC115 Series is UL recognized and features remote on/off control, EMI/RFI filtering, spike surge suppression, and overload circuit breaker protection. Eight switched and four unswitched outlets.

■ **PC125-A**
47-63Hz • 10 Outlets • 5-15P Input Connectors • 5-15R Output Connectors • $293

■ **PC125-B**
47-63Hz • 10 Outlets • 6-15R Output Connectors

■ **PC125-C**
47-63Hz • 10 Outlets • L5-30P Input Connectors • 5-15R Output Connectors • $385
The PC125-A, -B, and -C are UL recognized and CSA certified and feature remote on/off control, emergency shutdown and daisy chain capabilities. Also feature EMI/RFI filtering, spike surge suppression, and eight switched and two unswitched outlets.

■ **PC125-D**
47-63Hz • 10 Outlets • L5-30P Input Connectors • 5-20R Output Connectors • $420

■ **PC125-E**
47-63Hz • 10 Outlets • 6-20R Output Connectors • $549
The PC125-D and -E are UL recognized and feature remote on/off control, emergency shutdown and daisy chain capabilities. Also feature EMI/RFI filtering, spike surge suppression, and eight switched and two unswitched outlets.

■ **PC125-F**
47-63Hz • 10 Outlets • 6-15R Output Connectors • $420
UL recognized and CSA certified and features remote on/off control, emergency shutdown and daisy chain capability. Also features EMI/RFI filtering, spike surge suppression, and eight switched and two unswitched outlets.

■ **PC861-A**
47-63Hz • 12 Outlets • 5-15P Input Connectors • 5-15R Output Connectors • $406

■ **PC861-B**
47-63Hz • 12 Outlets • 6-15R Output Connectors • $458
The PC861-A and -B are UL recognized and feature remote control, emergency shutdown, and daisy chain capabilities. Also feature EMI/RFI filtering, spike surge protection, and eight switched and four unswitched outlets.

■ **PC861-C**
47-63Hz • 12 Outlets • L5-30P Input Connectors • 5-15R Output Connectors • $492

■ **PC861-D**
47-63Hz • 12 Outlets • L5-30P Input Connectors • 5-20R Output Connectors • $492

■ **PC861-F**
47-63Hz • 12 Outlets • 6-15R Output Connectors • $539

■ **PC861-G**
47-63Hz • 12 Outlets • L14-30P Input Connectors • 5-15R Output Connectors • $530
The PC861-C, -D, -F, and -G are UL recognized and feature remote control, emergency shutdown, and daisy chain capabilities. Also feature time delay power up to prevent high inrush current, EMI/RFI filtering, and spike surge protection.

■ **PC874-A**
47-63Hz • 10 Outlets • 5-15P Input Connectors • 5-15R Output Connectors • $418

■ **PC874-B**
47-63Hz • 10 Outlets • 6-15R Output Connectors • $469
The PC874-A and -B are UL recognized and feature remote control, emergency shutdown, and daisy chain capabilities. Also feature EMI/RFI filtering, spike surge protection, and eight switched and two unswitched outlets.

■ **PC874-C**
47-63Hz • 10 Outlets • L5-30P Input Connectors • 5-15R Output Connectors • $520
UL recognized and CSA certified and features remote control, emergency shutdown and daisy chain capability. Time delay power up to prevent high inrush.

■ **PC874-D**
47-63Hz • 10 Outlets • L5-30P Input Connectors • 5-20R Output Connectors • $525

■ **PC874-E**
47-63Hz • 10 Outlets • 6-20R Output Connectors • $686
The PC874-D and -E are UL recognized and feature remote control, emergency shutdown, and daisy chain capabilities. Also feature time delay power up to prevent high inrush, EMI/RFI filtering, and spike surge protection.

■ **PC874-F**
47-63Hz • 10 Outlets • 6-15R Output Connectors • $558
UL recognized and CSA certified and features remote control, emergency shutdown, and daisy chain capability. Also features time delay power up to prevent high inrush.

■ **TPC 981-A**
47-63Hz • 12 Outlets • 5-15P Input Connectors • 5-15R Output Connectors • $184

■ **TPC 981-B**
47-63Hz • 12 Outlets • 6-15R Output Connectors • $251

■ **TPC 981-C**
47-63Hz • 12 Outlets • L5-30P Input Connectors • 5-15R Output Connectors • $287

■ **TPC 981-D**
47-63Hz • 12 Outlets • L5-30P Input Connectors • 5-20R Output Connectors • $289

■ **TPC 981-E**
47-63Hz • 12 Outlets • 6-20R Output Connectors • $406

■ **TPC 981-F**
47-63Hz • 12 Outlets • 6-15R Output Connectors • $307
The TPC Series is UL recognized and features

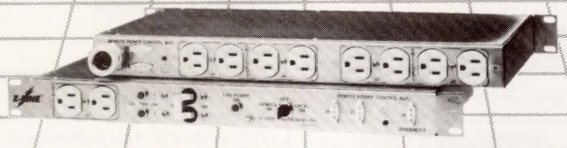
DON'T GET ZAPPED!

High inrush current can **destroy** your sensitive VAX CPUs and peripherals **in less time than it takes to flip a switch.**

THE SOLUTION?
Power up with ***Z-LINE* TPC 115-10 MTD™**, **the smallest** power distribution and control system available.

Z-LINE®

POWER UP WITH



Our proprietary **Multiple Time Delay™ circuitry sequences** your power-up to **protect** your systems from the spikes and surges that **destroy your hardware and erase your data.** And our remote on/off and emergency shutdown **gives the power control back to you.**

All Pulizzi Engineering MTD™ **controllers are compatible with DEC and UPS systems.**
PRICED FROM $436 TO $305

DON'T WAIT UNTIL IT HAPPENS, CALL TODAY!

PULIZZI ENGINEERING INC.
3260 S. Susan Street Santa Ana, CA 92704-6865 (714) 540-4229 FAX (714) 641-9062

EMI/RFI filtering, and spike/surge protection. Ten switched outlets on the rear panel and two on the front panel. Front panels may be unswitched.

■ **TPC115-10A/MTD**
47-63Hz • 10 Outlets • 5-15P Input Connectors • 5-15R Output Connectors • $436

■ **TPC115-10B/MTD**
47-63Hz • 10 Outlets • 6-15R Output Connectors • $519

■ **TPC115-10C/MTD**
47-63Hz • 10 Outlets • L5-30P Input Connectors • 5-15R Output Connectors • $526

■ **TPC115-10D/MTD**
47-63Hz • 10 Outlets • L5-30P Input Connectors • 5-20R Output Connectors • $558

■ **TPC115-10E/MTD**
47-63Hz • 10 Outlets • 5-20R Output Connectors • $676

■ **TPC115-10F/MTD**
47-63Hz • 10 Outlets • 6-15R Output Connectors • $562
The TPC115-10 Series is UL recognized and features remote on/off control, emergency shutdown and sequenced multiple time delay power up to prevent high in-rush. Also features EMI/RFI filtering and spike/surge protection.

■ **TPC115-8-A**
47-63Hz • 8 Outlets • 5-15P Input Connectors • 5-15R Output Connectors • $160

■ **TPC115-8-B**
47-63Hz • 8 Outlets • 6-15R Output Connectors • $248

■ **TPC115-8-C**
47-63Hz • 8 Outlets • L5-30P Input Connectors • 5-15R Output Connectors • $269

■ **TPC115-8-D**
47-63Hz • 8 Outlets • L5-30P Input Connectors • 5-20R Output Connectors • $296

■ **TPC115-8-E**
47-63Hz • 8 Outlets • 6-20R Output Connectors • $390

■ **TPC115-8-F**
47-63Hz • 8 Outlets • 6-15R Output Connectors • $286
The TPC115-8 Series is UL recognized, EMI/RFI filtering and spike/surge protection. Six switched outlets on the rear panel and two on the front panel.

Sigma Information Systems

■ **SA-H156**
47-63Hz • 5 Outlets • $206
The SA-H156 features a master outlet that senses CPU power and enables slave outlets. No remote switching wires are required with this unit.

Sutton Designs, Inc.

■ **ZX-5000**
$69-190

The Superior Electric Company

■ **BCR1205U**
50/60Hz
UL listed, 5kVA power device with selectable input/output terminals.

■ **BCR1207U**
50/60Hz

■ **BCR1210U**
50/60Hz
The BCR1207U and 1210U are UL listed, 10kVA power devices that regulate voltage. Equipped with selectable input/output terminals. Provide isolation from common-mode noise and attenuate transverse-mode noise.

■ **BCR3103U**
50/60Hz
UL listed, 3kVA power device that regulates voltage. Provides isolation from common-mode noise. Attenuates transverse-mode noise. Optional add-on distribution panels are available.

UPS Systems

Abacus Controls, Inc.



■ **514-3**
10kVA • 85% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 150% Output Overload • $11,800

■ **514-4**
10kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $11,800

■ **533-3**
3kVA • 85% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 150% Output Overload • $4350

■ **533-4**
3kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $4350

■ **933-3**
3kVA • 85% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 150% Output Overload • $4700

■ **933-4**
3kVA • 85% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 150% Output Overload • $4,700

■ **953-3**
5kVA • 85% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 150% Output Overload • $6100

■ **953-4**
5kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $6100
The above UPS models have no electromechanical contact nor solid state switching devices between the dual mode bridge circuit and the load; this permits synchronized transfers from the utility to the bridge instantaneously in both directions. Equipped with an internal battery.

Anasco Corporation

■ **85-962-330**
.33kVA • $499

■ **85-962-450**
.45kVA • $799

■ **85-962-800**
.8kVA • $1,099

AT&T Microelectronics

■ **1 KVA**
1kVA • 59-61Hz Input Frequency • 59-61Hz Output Frequency

■ **10 KVA**
10kVA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **10 KVA**
10kVA • 86% Output Efficiency • 59-61Hz Input Frequency • 60Hz Output Frequency

■ **20 KVA**
20kVA • 86% Output Efficiency • 59-61Hz Input Frequency • 60Hz Output Frequency

■ **3 KVA**
3kVA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **5 KVA**
5kVA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **500VA**
500VA • 57-63Hz Input Frequency • 59-61Hz Output Frequency
Should the AC power completely fail, the above UPS devices maintain regulated sinewave AC load power from DC-to-AC inverters fed from internal sealed lead acid batteries.

Atlas Energy Systems

■ **Ultrapower Rotary**
10kVA • $44,000

■ **Ultrapower Rotary**
1000kVA • $350,000

Beaver Electronic Laboratory, Inc.

■ **BBU-912**
.1kVA • 60Hz Input Frequency • $1,395
The BBU-912 is rack-mountable.

Behlman Engineering

■ **H-1000**
60Hz Input Frequency • 60Hz Output Frequency

■ **H-1500**
1.5kVA • 60Hz Input Frequency • 60Hz Output Frequency • $4,290

■ **H-2000**
2kVA • 60Hz Input Frequency • 60Hz Output Frequency • $5,175

■ **H-3000**
60Hz Input Frequency • 60Hz Output Frequency

■ **H-5000**
5kVA • 60Hz Input Frequency • 60Hz Output Frequency • $10,400

■ **H-750**
.75kVA • 60Hz Input Frequency • 60Hz Output Frequency • $2,975

Best Power Technology, Inc.

■ **FC10KVA**
10kVA • 91% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $9,525

■ **FC15KVA**
15kVA • 92% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $10,995

■ **FC3KVA**
3kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $4,995

■ **FC5KVA**
5kVA • 91% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $6,995

■ **FC7.5KVA**
7.5kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $8,575
The FC Series features outstanding isolation including isolation of output neutral. RS232 computer interface port allows control and display or 19 power parameters and 22 alarm conditions.

■ **MD1.5KVA**
1.5kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $2,895

■ **MD1KVA**
1kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $1,845

■ **MD2KVA**
2kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $3,695

■ **MD350VA**
350VA • 79% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $895

■ **MD500VA**
500VA • 79% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $995

■ **MD750VA**
750VA • 86% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $1,595
The MD Series features outstanding isolation including isolation of output neutral. RS232 computer interface port allows control and display or 18 power parameters and 12 alarm conditions.

■ **QFC10KVA**
10kVA • 91% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $10,950

■ **QFC15KVA**
15kVA • 92% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $12,650

■ **QFC3KVA**
3kVA • 90% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $5,750

■ **QFC5KVA**
5kVA • 88% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $8,050

■ **QFC7.5KVA**
7.5kVA • 90% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $9,850
The QFC Series features outstanding isolation including isolation of output neutral. RS232 computer interface port allows control and display or 19 power parameters and 22 alarm conditions.

■ **QMD1.5KVA**
1.5VA • 85% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $3,325

■ **QMD1KVA**
1kVA • 85% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $2,150

■ **QMD2KVA**
2kVA • 90% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $4,250

■ **QMD350VA**
350VA • 76% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $1,050

■ **QMD500VA**
500VA • 78% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $1,150

■ **QMD750VA**
750VA • 83% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $1,825
The QMD Series features outstanding isolation including isolation of output neutral. RS232 computer interface port allows control and display or 18 power parameters and 12 alarm conditions.

■ **QRC3KVA**
3kVA • 90% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $6,325

■ **QRC5KVA**
5kVA • 88% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $8,850
The QRC Series features outstanding isolation including isolation of output neutral. RS232 computer interface port allows control and display or 19 power parameters and 22 alarm conditions.

■ **QRM1.5KVA**
1.5kVA • 85% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $3,650

■ **QRM1KVA**
1kVA • 84% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $2,750

■ **QRM2KVA**
2kVA • 90% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 125% Output Overload • $4,675
The QRM Series features outstanding isolation including isolation of output neutral. RS232 computer interface port allows control and display or 18 power parameters and 12 alarm conditions.

■ **RC3KVA**
3kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $5,495

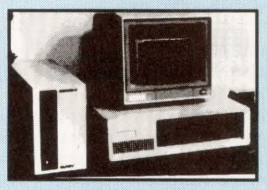
■ **RC5KVA**
5kVA • 91% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $7,695
The RC Series features outstanding isolation including isolation of output neutral. RS232 computer interface port allows control and display or 19 power parameters and 22 alarm conditions.

■ **RM1.5KVA**
1.5kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $3,185

■ **RM1KVA**
1kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $2,395

■ **RM2KVA**
2kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $4,065
The RM Series features outstanding isolation including isolation of output neutral. RS232 computer interface port allows control and display or 18 power parameters and 12 alarm conditions.

CLARY CORPORATION



■ **ONGUARD PC 2400**
800VA • 85% Output Efficiency • 50/60Hz Input and Output Frequency • $1,590
ONGUARD is universally recognized as one of the finest Uninterruptible Power Systems available today. Its patented non-linear design makes it over 50% smaller and lighter than comparable UPS. A reliable UPS provides more than blackout protection. Blackouts don't occur daily. Power disturbances such as sags, spikes, surges, noise and brownouts do. They wear and tear hardware, software and business profits. Only a true on-line, sinewave UPS like ONGUARD prevents such problems by regenerating new AC power for complete protection. Off-line and other so-called "on-line" UPS (non-regenerative) cannot. They only filter some of this power "pollution" and leave systems at risk. ONGUARD is available from 40VA to 3.75kVA in cabinet, rackmount and universal configuration. Clary offers a complete UPS line to 37.5kVA for all DEC applications.

■ **ONGUARD PC 1240**
400VA • 85% Output Efficiency • 50/60Hz Input and Output Frequency • $950

■ **ONGUARD PC 1.2KVA**
1250VA • 85% Output Efficiency • 50/60Hz Input and Output Frequency • $2,390

■ **ONGUARD SL 400**
400VA • 85% Output Efficiency • 50/60Hz Input and Output Frequency • $1,290

■ **ONGUARD SL 800**
800VA • 85% Output Efficiency • 50/60Hz Input and Output Frequency • $1,690

■ **ONGUARD 1.2kVA**
1.2kVA • 50/60Hz Input and Output Frequency • $3,750

■ **ONGUARD 1.5kVA**
1.5kVA • 50/60Hz Input and Output Frequency • $4,350

■ **ONGUARD 1kVA**
1kVA • 50/60Hz Input and Output Frequency • $3,450

■ **ONGUARD 2.5kVA**
2.5kVA • 50/60Hz Input and Output Frequency • $6,090

■ **ONGUARD 2kVA**
2kVA • 50/60Hz Input and Output Frequency • $5,590

■ **ONGUARD 3.75kVA**
3.75kVA • 50/60Hz Input and Output Frequency • $7,050

■ **ONGUARD 3kVA**
3kVA • 50/60Hz Input and Output Frequency • $6,550

■ **ONGUARD 800VA**
800VA • 50/60Hz Input and Output Frequency • $2,990

■ **ONGUARD JR 600VA**
600VA • 50/60Hz Input and Output Frequency • $1,790

■ **ONGUARD JR 800VA**
800VA • 50/60Hz Input and Output Frequency • $1,990

■ **10k-1A-SBS**
10kVA • 60Hz Input and Output Frequency

■ **15K-1A**
15kVA • 60Hz Input and Output Frequency

■ **22.5K-1A**
22.5kVA • 60Hz Input and Output Frequency

■ **30K-1A**
30kVA • 60Hz Input and Output Frequency

■ **37.5K-1A**
37.5kVA • 60Hz Input and Output Frequency • $36,500

■ **5k-1A-SBS**
5kVA • 60Hz Input and Output Frequency

■ **7.5k-1A-SBS**
7.5kVA • 60Hz Input and Output Frequency
Clary manufactures on-line, sinewave UPS from 400VA to 37.5kVA. UL listed, quiet, efficient. Features high demonstrated MTBF, ten years proven history, and transistorized field upgradable options.

COMPUTER ACCESSORIES CORPORATION

■ **PowerSaver Plus U5**
Equipped with self test and diagnostics, intelligent interface for unattended network file server shutdown and provides data line protection permitting fast transfer time of 1-3ms.

COMPUTER POWER PRODUCTS

■ **MRU025**
25kVA • $35,000

■ **MRU050**
50kVA • $55,000

■ **SRU075**
75kVA • $49,000

■ **SRU1000**
1000kVA • $270,000

COMPUTER POWER, INC.

■ **ComputerSave Mark II**
16.6kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $2,219+
UL listed.

■ **ComputerSave Mark III**
50kVA • 87-90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $18,906+
UL pending.

■ **Defender Long Run Series**
1kVA • 97% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $601+
UL listed.

■ **Defender Series**
1.2kVA • 98% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $626+
UL listed.

■ **HI-REL**
10kVA • 75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 130% Output Overload • $3,678+
UL pending.

■ **Pulsector**
3-10kVA • 80% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 130% Output Overload • $5,406+
UL and CSA listed.

■ **Series 36**
1.5kVA • 75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 130% Output Overload • $3,168+
UL listed.

■ **Survivor**
10kVA

■ **TriMax**
400kVA • 82-89% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $26,065+

CONTROLLED POWER COMPANY

■ **Series 1000**
2-25kVA • 95% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 120% Output Overload • $3,900+
The Series 1000 provides power distribution through flexible cables.

■ **Series 1000D**
24kVA • 95% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $13,000

CUESTA SYSTEMS CORPORATION

■ **DataSaver 200**
250VA • 60Hz Input Frequency • 60Hz Output Frequency • $495
Standby power protection designed specifically for desktop microcomputer users with fixed drives, small printers or other peripherals. International voltages available.

■ **DataSaver 400**
500VA • 60Hz Input Frequency • 60Hz Output Frequency • $695
Standby power protection for high-level microcomputers with peripherals, multi-

tasking systems and communication networks including AT, 286, 386, PS/2-80, and fileservers. Awarded "Editor's Choice" in PC magazine.

■ **DataSaver 600**
750VA • 60Hz Input Frequency • 60Hz Output Frequency • 985
Standby power protection designed specifically for the largest desktop micros, LANs, and CAD/CAM network fileserver systems. Features an auto shutdown capability.

■ **DataSaver 90**
110VA • 60Hz Input Frequency • 60Hz Output Frequency • $350
Standby power protection designed specifically for small desktop and portable microcomputers including Apple, Kaypro, grids, and laptops.

Cyberex, Inc.

■ **Mini-UPS**
7.5kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $10,000+

■ **Series IV**
50kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 120% Output Overload
Eliminates the need for dedicated input power lines and enables the use of smaller sized breaker panels, switchgear, and wiring. Front end design reduces electrical noise to unprotected personal computers and electronic typewriters.

■ **SIII/Plus**
30kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 300% Output Overload • $22,500+

■ **SIII/Plus**
30kVA • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $40,000+
The SIII/Plus Series features built-in batteries for up to 30 minutes of full load backup time, on-line operation for continuous power conditioning, a pulse-width modulated (PWM) inverter, and a solid state static transfer switch for "hands-free" response to overloads and faults.

DataShield

■ **SS400**
.4kVA • 80% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 300% Output Overload • $1,025

■ **SS700**
.7kVA • 80% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 300% Output Overload • $1,250
The SS400 and SS700 feature regulated output, extended battery life, and AC polarity check. Serve as mini power directors with no heavy transformers.

Deltron, Inc.

■ **Series FL**
1.5kVA • 60Hz Input Frequency • 60Hz Output Frequency
The Series FL is UL listed.

■ **Series NL**
1.5kVA • 60Hz Input Frequency • 60Hz Output Frequency
The Series NL is UL listed.

■ **Series TP**
5kVA • 60Hz Input Frequency • 60Hz Output Frequency

Elgar Corporation

■ **103-3B**
10kVA • 80% Output Efficiency • 57-63Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $25,465

■ **502-1T-02**
5kVA • 78% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 125% Output Overload • $9,995

■ **IPS 1100**
1.1kVA • 90% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • $1,295

■ **IPS 1600**
1.6kVA • 90% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • $1,695

■ **IPS 400+600**
90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $745

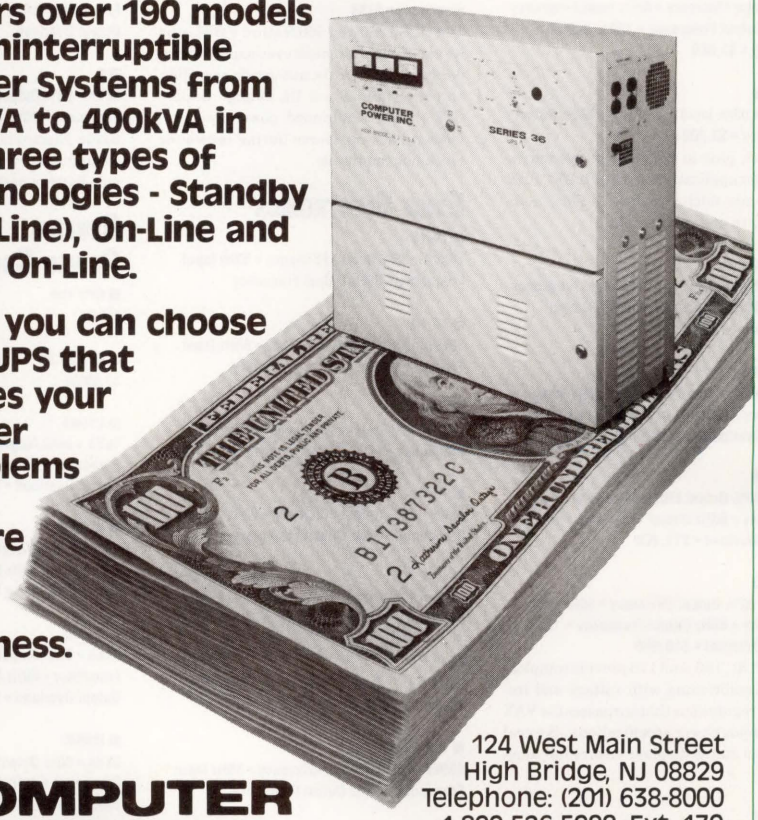
THE PRICE IS RIGHT

AND...SO IS THE TECHNOLOGY, QUALITY & SERVICE!

The price is right...now what?

Computer Power, Inc. offers over 190 models of Uninterruptible Power Systems from 400VA to 400kVA in all three types of technologies - Standby (Off-Line), On-Line and True On-Line.

Now you can choose the UPS that solves your power problems and you're back in business.



COMPUTER POWER INC.

124 West Main Street
High Bridge, NJ 08829
Telephone: (201) 638-8000
1-800-526-5088, Ext. 170
Fax: (201) 638-4931 Telex: 847481

CPI-104

■ **IPS 560**
560VA • 90% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • $995

Eltec, Inc.

■ **Deltec**
5kVA • $5,690

■ **Deltec**
25kVA • $25,000

Emerson Computer Power

■ **AP1000-1500**
1.5kVA • 60Hz Input Frequency • 60Hz Output Frequency • $1,798

■ **AP1000-200**
200VA • 60Hz Input Frequency • 60Hz Output Frequency • $412

■ **AP1000-300**
300VA • 60Hz Input Frequency • 60Hz Output Frequency • $550

■ **AP1000-800**
800VA • 60Hz Input Frequency • 60Hz Output Frequency • $998
The AP1000 Series features PWM, sine wave output, automatic overload/overtemperature safeguards, automatic operation on power failure, and UL listing. Supplies CPUs with conditioned power and provides a back-up source during brown- or black-out conditions.

■ **AP115**
80% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 120% Output Overload • $3,800

■ **AP115**
1.5kVA • 60Hz Input Frequency • 60Hz Output Frequency • $3,800+
Compact, plug-in true on-line system designed for applications such as LANs, PBX, large scale micro clusters, ATMs, minicomputers and peripherals.

■ **AP130**
80% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 120% Output Overload • $6,000

■ **AP161**
3kVA • 80% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $8,000

■ **AP166**
5kVA • 80% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $11,000

■ **AP176**
10kVA • 82% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $16,000
The AP161, 166, and 176 provide complete power conditioning with voltage and frequency regulations that surpasses the VAX CPUs input power specifications. Several LED and status displays ensure full diagnostics.

■ **AP320**
15kVA • 82% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $20,000+

■ **AP340**
30kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $24,000+

■ **AP355**
50kVA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $33,000+

■ **AP365**
75kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $40,000+
The AP3xx Series features several LED and status displays to ensure full diagnostic capabilities.

■ **PC-ET**
720VA • 60Hz Input Frequency • 60Hz Output Frequency • $995
True on-line UPS featuring PWM, sine wave output, automatic overload/overtemperature safeguards, automatic operation on power failure, and UL listing. Supplies CPUs with conditioned power and provides back-up in a compact design.

■ **SW1000**
1kVA • 60Hz Input Frequency • 60Hz Output Frequency • $698
Features PWM, sine wave output, automatic overload/overtemperature safeguards, automatic operation on power failure, and UL listing. Supplies CPUs with conditioned power and provides back-up in a compact design.

■ **UPS 1250**
1.25kVA • 60Hz Input Frequency • 60Hz Output Frequency • $1,398

■ **UPS 600**
600VA • 60Hz Input Frequency • 60Hz Output Frequency • $798
The UPS 1250 and 600 feature PWM, sine wave output, automatic overload/overtemperature safeguards, automatic operation on power failure and UL listing. Supply CPUs with conditioned power and provides a back-up source during brown- or black-out conditions.

Exide Electronics

■ **10-10**
10kVA • 83% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency

■ **10-10**
10kVA • 83% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **10-6**
6kVA • 83% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency

■ **10-6**
6kVA • 83% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **10-8**
8kVA • 83% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency

■ **10-8**
8kVA • 83% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **125-100**
100kVA • 91% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency

■ **125-100**
100kVA • 91% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **125-125**
125kVA • 92% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **125-62**
62.5kVA • 89% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency

■ **125-75**
75kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **125-75**
75kVA • 90% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency

■ **20-10**
10kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload

■ **20-10**
10kVA • 88% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 150% Output Overload

■ **20-15**
15kVA • 88% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 150% Output Overload

■ **20-15**
15kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload

■ **20-20**
20kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload

■ **20-20**
20kVA • 88% Output Efficiency • 50Hz Input Frequency • 50Hz Output Frequency • 150% Output Overload

■ **6**
6kVA • 83% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency
Exide Electronics' products filter all incoming electrical disturbances and provide battery backup protection.

General Power Corporation

■ **GPS 15K**
15kVA

■ **GPS 37.5K**
37.5kVA

■ **U1000**
1kVA • 84% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $2,400

■ **U10000**
10kVA • 86% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $11,500

■ **U3000**
3kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $5,000

■ **U5000**
5kVA • 86% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $7,000

■ **V-12**
12.5VA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $16,000

■ **V-18**
18.75VA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $23,000

■ **V-30**
30kVA • 89% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $32,000

■ **V-45**
45kVA • 89.5% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $38,000

■ **V-62**
62.5kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $42,000
General Power's UPS Series features transistorized rather than SCR inverter technology.

Gotec, Ltd.

■ **MaxiPower**
150kVA

■ **MicroPower**
2kVA

HDR Power Systems, Inc.

■ **HDR 1300**
5kVA • $11,000

■ **HDR 1300**
30kVA • $24,000

■ **HDR 1400-10**
10kVA • 93% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **HDR 1400-15**
15kVA • 93% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **HDR 1400-5**
5kVA • 93% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **HDR 1400-7.5**
7.5kVA • 93% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency
Includes power conversion, and transfer circuitry, and an internal load distribution panel. Available with an optional remote panel. Features a 20 minute minimum back-up.

■ **HDR 3100**
10kVA • $21,500

■ **HDR 3100**
100kVA • $60,000

Hitron Corporation

■ **BA0279-00-03**
10kVA • $19,485

■ **BA0280-00-03**
15kVA • $24,350

■ **BA0281-00-03**
20kVA • $29,070

ICS, Inc.

■ **E-PAC/10**
10kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $15,950

■ **E-PAC/15**
15kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $18,550

■ **E-PAC/2.0**
2kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $6,995
Rackmount version also available.

■ **E-PAC/20**
20kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $22,975

■ **E-PAC/3.0**
3kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $8,695

■ **E-PAC/5.0**
5kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $11,975

■ **E-PAC/7.5**
7.5kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $13,200
The-PAC Series consists of electronically regulated battery chargers, sinewave inverters, and static switches.

■ **M95-1000**
1kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $2,780
Features a 25 minute run time.

■ **M95-200**
200VA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 200% Output Overload • $1,455

■ **M95-200**
200VA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 200% Output Overload • $1,235
Features a seven minute run time. No transfer time when a deviation is sensed; CPU loads are automatically protected with no loss of information.

■ **M95-3000**
3kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $7,400
Features a 15 minute run time.

■ **M95-600**
600VA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $1,695
Features a 15 minute run time. No transfer time when a deviation is sensed; CPU loads are automatically protected with no loss of information.

■ **SB 400**
400VA • 60Hz Input Frequency • 60Hz Output Frequency • $449

■ **SB 400LB**
400VA • 50Hz Input Frequency • 50Hz Output Frequency • $495
Features a 16 minute run time.

■ **SB 800**
800VA • 60Hz Input Frequency • 60Hz Output Frequency • $795
Includes standby units that feature a 3ms switch time to standby power, and provides black- and brown-out protection, as well as surge and spike protection. Features an eight minute run time.

IMUNELEC, INC.

■ **Series 11**

■ **Series 31**
20kVA • $29,782

INTERNATIONAL COMPUTER POWER

■ **RotopPlus**
1-10kVA

INTERNATIONAL POWER MACHINES CORPORATION

■ **DP100**
100kVA • 85% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP125**
125kVA • 87% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP150**
150kVA • 87% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP20**
20kVA • 78% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP225**
225kVA • 90% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP25**
25kVA • 80% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP300**
300kVA • 91% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP38**
38kVA • 81% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP400**
400kVA • 91% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP50**
50kVA • 81% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP500**
500kVA • 91% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP600**
600kVA • 91% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **DP75**
75kVA • 84% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload
Employs traditional SCR technology to provide clean, reliable power to computers. All 60Hz models are listed by ETL Laboratories and feature standard analog meters.

■ **EP100**
100kVA • 90.5% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **EP133**
133kVA • 90.5% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **EP167**
167kVA • 90.5% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload

■ **EP32**
32kVA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 105% Output Overload

■ **EP64**
64kVA • 88% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 105% Output Overload
Provides clean, reliable power through the latest transitor technology. Features include quiet operation, computer peripheral design, on-board LEDs, a digital display panel, internal redundancy of critical components and of power boards, and UL-listing of 60Hz models.

■ **SP18**
18.75kVA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload

■ **SP30**
30kVA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload
Features quiet operation for computer room installation and is available as standalone or with matching battery packs.

ISOREG CORPORATION

■ **ISOGUARD**
5kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload

■ **ISOGUARD**
3kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload

■ **ISOGUARD**
2kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload

■ **ISOGUARD**
1kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload

■ **ISOGUARD**
62.5kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload

■ **ISOGUARD**
45kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload

■ **ISOGUARD**
30kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload

■ **ISOGUARD**
18.75kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload

■ **ISOGUARD**
12.5kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload

LIEBERT CORPORATION

■ **PPC**
75kVA • 60Hz Input Frequency • 60Hz Output Frequency
The PPC (Programmed Power Center) features internal logic, UL listing, and offers maintenance and service.

■ **Series 300**
75kVA • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload
Features a microprocessor with self-diagnostics, UL listing, and offers maintenance and service. Displays battery time remaining during power outages and is equipped with a manually selected static bypass with auto retransfer.

LORTEC POWER SYSTEMS, INC.

■ **ContinuAC**
160kVA • $5,000+
Features custom tailored battery reserve times, and installation, testing, and maintenance/extended warranty options.

■ **UPS Single Phase**
2-5kVA • $4,995+

■ **UPS Three Phase**
160kVA • $17,500+

NORTHERN PACIFIC POWER DEVICES

■ **UPS 650**
.65kVA • $1,595

NOVA ELECTRIC, INC.

■ **GC11-10K60**
10kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $14,910

■ **GC11-15K60**
15kVA • 80% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload

■ **GC11-5K60**
5kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $9,495
Features a built-in reverse transfer static transfer switch, a built-in maintenance bypass switch, Rack mount configuration available.

■ **GC11-7.5K60**
7.5kVA • 80% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload • $13,230
Equipped with casters and is available with optional input and output connectors.

■ **GR11-3K60**
3kVA • 85% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 150% Output Overload • $4,995
Rack mount configuration that includes a battery pack, built-in reverse transfer static transfer switch, and two plug-in boards. Optional features include MIL connectors as well as slide guides.

PANAMAX

■ **PowerMax**
450VA

■ **PowerMax**
800VA

■ **PowerMax**
1.2kVA
The PowerMax Series features audio/visual signals, multiple outlets, DB-9 communication contact, and is designed to provide maximum protection for microcomputer and word processing systems.

Precise Power Corporation

■ **15-60**
15kVA • 81% Output Efficiency • 59-62Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $19,950

■ **35-60**
35kVA • 84% Output Efficiency • 59-62Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $29,950
The 15-60 and 35-60 are Extended Power Assurance (XPA) systems that feature full electrical isolation, providing 15 seconds of constant frequency ride through protection at full load without the use of batteries.

PTI Industries

■ **SS700**
.7kVA • 60Hz Input Frequency • 60Hz Output Frequency • $1,199

RTE Deltec Corporation

■ **4000 Series**
1kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload
Features input/output filters, a power switch, a control circuit, a sealed lead acid battery, and an isolation transformer.

■ **6000 Series**
56kVA • $27,900+

■ **7000 Series**
10kVA • $5,195+

■ **8000 Series**
10-25kVA • 95% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency

■ **9000 Series**
56.25kVA • 95% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload
The 8000 and 9000 Series features small footprints, electronic line conditioning, filtering, surge suppression, isolated output control and on-line bidirectional PWM converters that eliminate the need for a separate rectifier/charger.

Protect electrical systems from evil and monstrous things



New UPS improves size and efficiency in power ranges from 10KVA to 56KVA



8000 and 9000 Series Uninterruptible Power Systems

A breakthrough in UPS technology, has resulted in maximum power protection in a package about half the size of comparable systems.

If your customer's equipment depends on clean power, you can expect our systems to provide the efficiency and dependability you require.

They're quiet, provide detailed monitoring and control. And, most importantly, they're cost-efficient to operate.

Write or call for a free brochure.

DELTEC

A Fiskars Company

2727 Kurtz Street • San Diego, CA 92110
(800) 854-2658 • (619) 291-4211 (in California) • FAX (619) 299-6124

Safe Power Systems, Inc.

■ **UPS 1000**
1kVA • 73% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 150% Output Overload • $2,995

■ **UPS 2000**
2kVA • 73% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 150% Output Overload • $4,495

■ **UPS 3000**
3kVA • 73% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 150% Output Overload • $6,495

■ **UPS 5000**
5kVA • 73% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 150% Output Overload • $9,995
Safe's UPS line is designed for applications in areas that are subject to continuous power fluctuations and offers protection for systems requiring power with constant regulation and conditioning.

Sola Electric

■ **1.5 Electronic**
1.5-3kVA • 60Hz Input Frequency • 60Hz Output Frequency • $4,435+
Features automatic no-break transfer.

■ **Electronic 87 UPS**
5-10kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 110% Output Overload • $9,640
True no-break UPS that features a multi-tapped input/output which allows a variety of configurations.

■ **Interact 57 Series**
10-25kVA • 95% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 115% Output Overload • $21,800
This Series features a high output efficiency (AC-to-AC) of 95%.

■ **Mini-UPS/2**
.5-1kVA • 60Hz Input Frequency • 60Hz Output Frequency • $1,885

■ **Mini-UPS/2**
.5-1kVA • 60Hz Input Frequency • 60Hz Output Frequency • $1,885
Features "true" on-line, no-break systems that features RS232 interfaces.

■ **PWM-UPS**
3kVA • 60Hz Input Frequency • 60Hz Output Frequency • $6,560

Solidstate Controls, Inc.

■ **PB4050-1**
5kVA • 79% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $10,523
The PB4050-1 is UL listed.

■ **PB4050-3**
5kVA • 79% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $15,330
Batteries included.

■ **PB4100-1**
10kVA • 81% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $12,541

■ **PB4100-3**
10kVA • 83% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $18,948

■ **PB4150-3**
15kVA • 83% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $26,260
The PB41xx Series is UL listed.

■ **PB4200-3**
20kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $29,413
The PB4200-3 is UL listed.

■ **PB5030-2**
20kVA • 83% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $35,153

■ **PB5030-4**
30kVA • 85% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $35,153

■ **PB5050-2**
50VA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $37,976

■ **PB5050-4**
50kVA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $37,976

■ **PB5075-2**
75kVA • 87% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $53,200

■ **PB5075-4**
75kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $53,200

■ **PB5100-2**
100kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $53,200

■ **PB5100-4**
100kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $53,200

■ **PB5150-4**
150kVA • 90% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $76,023

■ **PowerBase 1101**
1kVA • 74% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 120% Output Overload • $3,000
On-line portable unit designed for computers and small automated office systems.

■ **PowerBase 1103-3B**
3kVA • 74% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 130% Output Overload • $8,125

■ **PowerBase 1103-3S**
3kVA • 75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 130% Output Overload • $7,748

■ **PowerBase 1103-6S**
3kVA • 75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 130% Output Overload • $8,286

■ **PowerBase 1103-B**
3kVA • 74% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 130% Output Overload • $7,742

■ **PowerBase 1103-S**
3kVA • 75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 130% Output Overload • $6,528
The PowerBase Series features UL listings.

Square D Company

■ **PowerMaker E/S**
5-25kVA • 84% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 125% Output Overload • $27,220
Features exclusive microcomputer controlled waveform synthesis.

■ **PowerMaker Micro UPS**
.4-1.3kVA • 60Hz Input Frequency • 60Hz Output Frequency • $835+
Designed specifically for protecting PCs and small business computers against power outages and electrical noise. Provides a sine wave output that matches the waveshape of commercial power.

■ **PowerMaker Mini**
3-10kVA • 87% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 200% Output Overload • $6,450+
New innovative line that supplies 3-10kVA of clean sinusoidal output power. Features advanced PWM technology, exclusive on-line/off-line selectability, and selectable voltages and frequencies.

■ **PowerMaker UPS**
1.8VA • 93% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 150% Output Overload • $2,890
Protects microcomputers and super micros against noise, voltage fluctuations, and power outages. Features 1 ms power transfer plus complete power conditioning that emulates on-line systems. Available in a 2.5kVA model at $$4,850.

■ **Series 82000**
1.5kVA • 80% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 170% Output Overload • $5,325

■ **ULTRA-ISOLATOR**
to 130kVA • 95% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 200% Output Overload • $12,510
Noise suppressors that protect computers and sensitive electronic equipment against electrical noise disturbances. Guaranteed to eliminate noise-related equipment problems or Topaz will provide a full refund.

Summus Computer Systems

■ **Tosnic**
.5 kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 120% Output Overload • $3,599

■ **Tosnic**
1kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 120% Output Overload • $2,299

■ **Tosnic**
2kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 120% Output Overload

■ **Tosnic**
5kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 120% Output Overload • $8,299

■ **Tosnic**
50kVA • 88% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • 120% Output Overload • $26,000

Sutton Designs, Inc.

■ **F Series**
3.5kVA • $5,995

■ **F Series**
15kVA • $9,995

■ **MM 1200SS**
1440VA • >75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $1,599

■ **MM 1600SS**
1920VA • >75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $1,999
The MM 1200SS and 1600SS feature separate units that house the battery.

■ **MM 250Z**
300VA • >75% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • $399
Features a phase locked, synchronized, stepped rectangular waveform.

■ **MM 300SS**
360VA • >75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $549

■ **MM 500Z**
600VA • >75% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • $699

■ **MM 600SS**
360VA • >75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $899
The MM 300SS, 500Z, and 600SS feature a LED status display readout.

■ **MM-900SS**
60Hz Input Frequency • 60Hz Output Frequency • $1,299
Switches to inverter operation in less than 1ms. Features extensive LED status indicators and is UL listed.

■ **ZX-5000 Series**
1.8kVA • >99% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency

■ **ZX-5000 Series**
7.2kVA • >99% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • $190

The Superior Electric Company

■ **Stabiline 200VA/500V**
200-500VA • 60Hz Input Frequency • 60Hz Output Frequency
Units offer ten minutes of back-up time, under full load. Battery back-up packs are available for extended back-up time. Maintenance free battery UL approved.

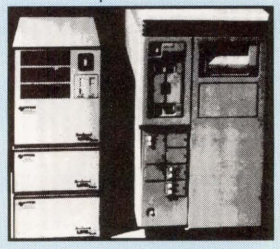
Toshiba/Houston

500VA-50kVA
.5-50kVA • 80% Output Efficiency • 50/60Hz Input Frequency • 50/60Hz Output Frequency • 150% Output Overload
Toshiba's on-line UPS devices feature the latest state-of-the-art technology producing a true sinewave through pulse width modulation (PWM) with less than 3% THD.

Transtector Systems, Inc.

■ **UP2S 1000**
1kVA • 60Hz Input Frequency • 60Hz Output Frequency • 150% Output Overload
Features Lattice Matrix suppression and sine wave synchronization during initial start up from AC to inverter.

Viteq Corporation



■ **15A**
1.5kVA • 75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $3,195
The Benchmark on-line UPS Series offers complete on-line protection for DEC micro and minicomputers, both standalone and in LAN applications. High starting surge capability (up tp 1000% of the nominal startup rating) combined with true sinewave output and precision frequency improves reliability from utility power MTBF of 24 hours to VITEQ output power MTBF of 40,000 hours. The model 15A protects any DEC minicomputer or other critical equipment rated 12Amps or lower from all power line disturbances. It is the only power interface device at this rating which does not require higher amperage or expensive rewiring.

■ **386/LAN**
750VA • 75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $1,895
Protects any DEC microcomputer load or 286 or 386-based file servers up to 750VA from all power disturbances.

■ **MINI/GP**
3kVA • 75% Output Efficiency • 60Hz Input Frequency • 60Hz Output Frequency • $7,750
Automatically configures itself to power any equipment requiring single phase 120 VAC, dual phase 208/120 VAC, or split phase 240/120 VAC.

ENCLOSURES

SYSTEM AND PERIPHERAL ENCLOSURES

Model	Front Access	Rear Access	Width (inches)	Height (inches)	Depth (inches)	Enclosure Type	Side Panels	# of Backplane Slots	Stabilizers	Power Controller	Price
Damac Products, Inc. 213 946-0881											
9000 Series	Y		26.00	72.00	32.00					Y	
Dyna Five Corporation 714 525-8795											
BA123						Large Systems			Y		
D5-EE101	Y	Y	19.00	5.25	19.75	Q-bus Systems			Y		
D5-PE100						Q-bus Systems			Y		
D5-PE101			19.00	5.25	19.75	Q-bus Systems			Y		
D5-SE100						LSI-11 Systems			Y		
D5-SE101	Y	Y	19.00	5.25	19.75	Q-bus Systems			Y		
D5-VS102		Y				VME Large Systems			Y		
PE-103			19.00	5.25	24.50	8" Fujitsu Drives			Y		
SE-105						DEC BA123			Y		
SE-108			19.00	5.25	19.75	Q-bus Systems			Y		
Everest Electronic Equipment 404 995-8688											
EH-123	Y	Y	17.00	20.12	27.75	Micro Systems	N		Y	Y	$950
EH-9642-EA	Y	Y	21.25	41.75	30.00	Mid-sized Systems	Y		*	Y	$1,975
EH-9642-ES	Y	Y	21.25	41.75	30.00	Mid-sized Systems	Y		*	Y	$1,425
EH-9645-EA	Y	Y	29.10	39.50	30.00	Shielded Cabinet	Y		*	Y	$2,250
EH960-F	Y	Y	18.31	71.50	37.75	Large Systems	Y		*	Y	$2,250
EH9602-19F	Y	Y	22.56	60.42	30.00	Heavy Load	Y		*	Y	$1,487
EH9602-24F	Y	Y	27.50	60.42	30.00	Large Systems	Y		*	Y	$1,790
EH9610-F	Y	Y	21.25	30.75	30.00	Small Systems	Y		*	Y	$935
EH9642-AF	N	Y	21.25	41.75	36.00	Disk Drives	Y		*	Y	$1,325
EH9642-AP	Y	Y	21.25	41.75	36.00	Disk Drives	Y		*	Y	$1,325
EH9642-AS	Y	Y	21.25	41.75	36.00	Disk Drives	Y		*	Y	$1,325
EH9642-FA	Y	Y	21.25	41.75	30.00	Mid-sized Systems	Y		*	Y	$1,850
EH9642-FC	Y	Y	21.25	41.75	30.00	Mid-sized Systems	Y		*	N	$1,850
EH9642-FFL	Y	Y	21.25	41.75	30.00	Medium Systems	Y		*	Y	$1,066
EH9642-FTL	Y	Y	21.25	41.75	30.00	Medium Systems	Y		*	Y	$1,009
EH9642-JA	Y	Y	26.59	41.75	36.00	Micro Systems	Y		*	N	$3,465
EH9642-SC	Y	Y	21.25	41.75	30.00	Tape Drives	Y		*	*	$1,541
EH9646-ES	Y	Y	21.25	58.00	30.00	Large Systems	Y		*	Y	$1,485
EH9646-JA	Y	Y	21.25	60.00	30.00	Large Systems	Y		*	Y	$2,128
EH9646F	Y	Y	21.25	60.25	30.00	Mid-sized Systems	Y		*	Y	$1,435
EH9647-AA	Y	Y	29.10	58.00	30.00	Large Systems	Y		*	Y	$2,375
TWIO-SABRE	Y	Y	11.50	24.30	31.20	Micro Pedestal	Y		Y	Y	$810
Hybricon 508 772-5422											
027-088-04			2.87	12.37	10.00	Card Cage		4			$4,310
027-088-08			4.75	11.88	10.00	Card Cage		8			$386
027-095-10			6.80	12.60	10.00	Card Cage		10			$481
027-302			7.97	5.75	9.45	Card Cage		12			$345
027-372-04			2.87	12.37	10.00	Card Cage		4			$310
Interlogic Industries 516 420-8111											
DOV11-B						LSI-11 Backplane		9			$235
H-9270						Q-bus Backplane		4			$195

TRIMM INDUSTRIES A Global View...

DISK EXPANSION

In a world of continuing disk expansion, TRIMM Industries offers a comprehensive range of enclosure products. Enclosures from single drive expansion to disk farm applications are available. Dec write protection functions are available in most configurations as well as fully regulated individual peripheral power supplies. Thermal protection and a variety of options make TRIMM the choice for a world full of configurations.

Q-BUS SYSTEM EXPANSION

TRIMM Industries allows the system integrator a world of options for configuring Q-bus based systems. Trimm offers a CD backplane available in either eight or twelve slots as well as an eight slot Q22 backplane. Fully regulated 350 or 500 watt (continuous) power supplies run the systems. Rack-mount, pedestal, and roll-around models allow configurations for all applications and with our variety of options, the world is the limit.



DA 5 PERIPHERAL ENCLOSURE



DEC COMPATIBLE CABINETS

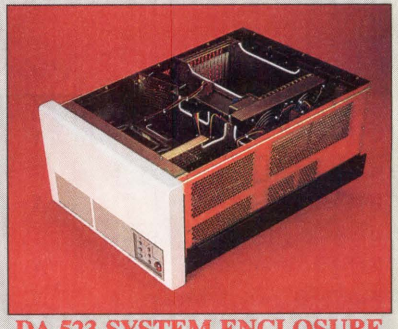


DA 23 SYSTEM ENCLOSURE



DA 50 DISK STORAGE ENCLOSURE





DA 523 SYSTEM ENCLOSURE



TWR DISK EXPANSION



DA 123



TWR SYSTEM ENCLOSURE

TRIMM INDUSTRIES

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Phone: (0602) 385485
Fax: (0602) 389973 TLX: 379317

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SYSTEM AND PERIPHERAL ENCLOSURES

Model	Front Access	Rear Access	Width (inches)	Height (inches)	Depth (inches)	Enclosure Type	Side Panels	# of Backplane Slots	Stabilizers	Power Controller	Price
Interlogic Industries 516 420-8111 (continued)											
H-9275						Q-bus Backplane		9			$365
H-9278						Q-bus Backplane		8			$190
Lion Cabinets 201 427-3500											
DT-525											
DT-800											
L-123-A		Y	17.00	24.5	29.50	Disk Drives					
L-123-B		Y	17.00	24.5	29.50	Disk Drives					
L-123-C		Y	17.00	24.5	29.50	Disk Drives					
RM-525						Disk Drives			Y		
RM-800						Disk Drives			Y		
UND-FP		Y	21.25	41.62	36.00	Large Systems	Y		N	Y	
UND-NP		Y	21.25	41.62	36.00	Large Systems	Y		N	Y	
UND-TOP		Y	21.25	41.62	36.00	Large Systems	Y		N	Y	
UNE-FD	Y	Y	21.25	41.62	31.37	Medium Systems	Y		N	Y	
UNE-FP		Y	21.25	41.62	31.37	Medium Systems	Y		N	Y	
UNE-HDP		Y	21.25	41.62	31.37	Medium Systems	Y		N	Y	
UNE-KEY		Y	21.25	41.62	31.37	Medium Systems	Y		N	Y	
UNE-NP		Y	21.25	41.62	31.37	Medium Systems	Y		N	Y	
UNE-STC		Y	21.25	41.62	31.37	Medium Systems	Y		N	Y	
UNE-TED		Y	21.25	41.62	31.37	Medium Systems	Y		N	Y	
UNE-TOP		Y	21.25	41.62	31.37	Medium Systems	Y		N	Y	
UNS-FP		Y	21.25	31.62	31.37	Small Systems	Y		N	Y	
UNS-NP		Y	21.25	31.62	31.37	Small Systems	Y		N	Y	
UXT-FD	Y	Y	21.25	61.62	31.37	Large Systems	Y		N	Y	
UXT-FP		Y	21.25	61.62	31.37	Large Systems	Y		N	Y	
UXT-HDP		Y	21.25	61.62	31.37	Large Systems	Y		N	Y	
UXT-NP		Y	21.25	61.62	31.37	Large Systems	Y		N	Y	
V40-FHFD	Y	Y	21.25	41.62	31.37	Medium Systems			N	Y	
V60-FHFD	Y	Y	21.25	61.62	31.37	Large Systems			N	Y	
VAL-30		Y	21.25	31.62	24.37	Medium Systems			N	Y	
VAL-30C	Y	Y	21.25	31.62	24.37	Small Systems			N	Y	
VAL-40		Y	21.25	41.62	31.37	Medium Systems			N	Y	
VAL-40C	Y	Y	21.25	41.62	31.37	Medium Systems			N	Y	
VAL-60		Y	21.25	61.62	31.37	Large Systems			N	Y	
VAL-60C	Y	Y	21.25	61.62	31.37	Large Systems			N	Y	
VXE-FD	Y	Y	27.50	60.50	30.50	Large Systems	Y		N	Y	
VXE-FP		Y	27.50	60.50	30.50	Large Systems	Y		N	Y	
VXE-HDP		Y	27.50	60.50	30.50	Large Systems	Y		N	Y	
VXE-NP		Y	27.50	60.50	30.50	Large Systems	Y		N	Y	
VXE-SBI	Y	Y	27.50	60.50	30.50	Large Systems	Y		N	Y	
MDB Systems, Inc. 714 998-6900											
MLSI-BA11-2000-F	Y	N	19.00	5.25	18.00	Q-bus Chassis		8			$1,750
MLSI-BA11-2000-R	N	Y	19.00	5.25	18.00	Q-bus Chassis		8			$1,750
MLSI-BA11-2200-F	Y	N	19.00	5.25	18.00	Q-bus Chassis		8			$1,950
MLSI-BA11-2200-R	N	Y	19.00	5.25	18.00	Q-bus Chassis		8			$1,950
MLSI-BA11-3000-F	Y	N	19.00	5.25	18.00	Q-bus Chassis		8			$1,650
MLSI-BA11-3000-R	N	Y	19.00	5.25	18.00	Q-bus Chassis		8			$1,650

SYSTEM AND PERIPHERAL ENCLOSURES

Model	Front Access	Rear Access	Width (inches)	Height (inches)	Depth (inches)	Enclosure Type	Side Panels	# of Backplane Slots	Stabilizers	Power Controller	Price
SI Technology, Inc. 312 232-8640											
3000		Y	19.00	4.50	12.00	Modem		16			
Sigma Information Systems 714 630-6553											
SA-BA11N-3	Y		19.00	5.25	20.00	Q-bus Systems		16	Y	Y	$1,578
SA-H101	Y		19.00	5.25	24.75	Flexible Disk Drives			Y		$709
SA-H110		Y	19.00	6.00	20.50	5.25" Disk Drives		8	Y		$1,578
SA-H112/2	Y		19.00	5.25	20.00	5.25" Disk Drives			N		$698
SA-H115			12.00	26.5	20.00	5.25/8" Disk Drives	Y	8	N		$2,602
SA-H116						9" Disk Drives			Y		$649
SA-H116/2	Y		13.00	6.87	18.00	5.25" Disk Drives			N		$541
SA-H123 S/250	Y		19.00	7.00	26.00	5.25" Disk Drives			N	Y	$1,093
SA-H123S/2382	Y		19.00	7.00	24.00	8" Disk Drives	Y		N	Y	$1,558
SA-H123S/350	Y		19.00	7.00	26.00	8" Disk Drives			N	Y	$1,442
SA-H124/Q			7.43	26.5	22.25	5.25" Disk Drives	Y	8	Y		$1,754
SA-H125		Y	19.00	5.25	24.00	5.25" Disk Drives		8	N		$1,540
SA-H125/3		Y	19.00	5.25	24.00	MicroVAX Systems		8	N	Y	$1,555
SA-H136		Y	11.70	3.62	13.38	Q-bus Systems		4	N	Y	$753
SA-H140			12.12	14.00	5.50	Q-bus Systems		8	Y		$1,315
SA-H144	Y		7.43	26.50	26.00	5.25" Disk Drives	Y	32	Y		$1,905
SA-H147	Y		19.00	7.00	19.75	Q-bus Systems		12	N		$2,029
SA-H149	Y		19.00	12.25	24.00	5.25/8" Disk Drives		14	Y		$4,500
SA-H152	Y		17.00	21.00	24.00	5.25" Disk Drives	Y	8	N		$5,560
SA-H154	Y		19.00	5.25	22.00	Q-bus Systems		8	Y		
SA-H155	Y		19.00	12.25	24.00	5.25" Disk Drives		14	Y		$4,500
SA-H157			19.00	7.00	26.00	8" Disk Drives			Y		$1,208
SA-H158			7.50	24.00	23.00	8" Disk Drives	Y		N		$1,840
SA-H159		Y	19.00	5.25	24.00	MicroVAX II/LSI-11		8	N	Y	$1,694
SA-H160		Y	19.00	10.50	24.00	MicroVAX II		14	N		$3,134
SA-H161Q		Y	21.25	7.25	16.25	5.25" Disk Drives		8	N		$969
SA-H162	Y	Y	14.60	26.87	28.00	5.25" Disk Drives		8	Y		$3,815
SA-H163/3	Y		19.00	5.25	18.00	5.25" Disk Drives			N	Y	$1,388
SA-H165			19.00	5.25	26.00	8" Disk Drives			N		$1,442
SA-H166	Y	N	19.00	8.75	22.00	Q-bus Systems		12	N		$2,948
SA-H168/2	Y		19.00	12.25	24.00	5.25" Disk Drives		14	Y		$4,871
SA-H169	Y		19.00	12.25	26.00	5.25" Disk Drives		14	N		$10,833
SA-H173	Y	N	19.00	6.75	22.50	5.25" Disk Drives			N		$1,445
SA-H176	Y	Y	20.25	3.50	19.50	Q-bus Systems		4	Y		$1,208
SA-H184	Y	N	10.00	20.75	20.50	5.25" Disk Drives			N		$2,284
SA-H185	Y	Y	19.00	12.25	26.00	8" Disk Drives		12	N		$3,128
SA-H187	Y		19.00	5.25	18.00	5.25" Disk Drives			N		$4,150
SA-H188	Y		19.00	5.25	22.25	5.25" Disk Drives			N		$1,270
SA-H189	Y		7.00	5.25	15.00	5.25" Disk Drives			N		$353
SA-H190			19.00	8.50	26.00	8" Disk Drives			N		$1,716
Summus Computer Systems 713 492-6611											
SUM-ENC	Y	Y					Y		Y	Y	
Trimm Industries 818 983-1833											
D8410-CA	Y	Y	21.25	31.00	30.00	Small Systems	*		*	Y	
D8442-CA	Y	Y	21.25	41.64	30.00	Medium Systems	*		*	Y	
D8442-CDC	N/A	Y	21.25	61.50	30.00	CDC's Keystone	*		*	Y	

SYSTEM AND PERIPHERAL ENCLOSURES

Model	Front Access	Rear Access	Width (inches)	Height (inches)	Depth (inches)	Enclosure Type	Side Panels	# of Backplane Slots	Stabilizers	Power Controller	Price
Trimm Industries 818 983-1833 (continued)											
D8442-STC	N/A	Y	21.25	61.50	30.00	STC's 2920	*		*	Y	
D8442-TLX	N/A	Y	21.25	61.50	30.00	Telex's Shamrock	*		*	Y	
D8446-CA	Y	Y	21.25	61.50	30.00	Large Systems	*		*	Y	
D9602-CA	Y	Y	27.50	60.00	30.00	Large Disk/Tape	Y		*	Y	
D9602-DF	Y	Y	27.50	60.00	30.00	Large Systems	Y		*	Y	
D9602-EA	Y	Y	27.50	60.00	30.00	Large Systems	Y		*	Y	
D9602-NF	Y	Y	21.25	60.00	30.00	Large Systems	Y		*	Y	
D9602-SN	Y	Y	21.25	41.64	30.00	Large Disks	Y		*	Y	
D9602-SR	Y	Y	27.50	41.64	30.00	Large Systems	Y		*	Y	
D9610-CA	Y	Y	21.25	31.00	30.00	Small Systems	Y		*	Y	
D9642-AD/AE	Y	Y	21.25	41.64	30.00	Medium Systems	Y		*	Y	
D9642-BD/BE	Y	Y	21.25	41.64	30.00	Medium Systems	Y		*	Y	
D9642-CA	Y	Y	21.25	41.64	30.00	Medium Systems	Y		*	Y	
D9642-CDC	N/A	Y	21.25	41.64	30.00	CDC's Keystone	Y		*	Y	
D9642-DA	Y	Y	21.25	41.64	30.00	Medium Systems	Y		*	Y	
D9642-STC	N/A	Y	21.25	41.64	30.00	STC's 2920 Series	Y		*	Y	
D9642-TLX	N/A	Y	21.25	41.64	30.00	Telex's Shamrock	Y		*	Y	
D9646-AA	Y	Y	21.25	61.50	30.00	Large Systems	Y		*	Y	
D9646-BA	Y	Y	21.25	61.50	30.00	Large Systems	Y		*	Y	
D9646-CA	Y	Y	21.25	61.50	30.00	Large Systems	Y		*	Y	
D9646-DA	Y	Y	21.25	61.50	30.00	Large Systems	Y		*	Y	
D9646-EA	*	Y	21.25	61.50	30.00	Large Systems	Y		*	Y	
DA 23						5.25" Disk Drives			Y		
DA 5			9.20	5.70	13.00	5.25" Disk Drives			Y		
DA 50-2			19.00	5.25	25.00	5.25" Disk Drives			Y		
DA 50-4			19.00	5.25	25.00	5.25" Disk Drives			Y		
DA 80-EMD			19.00	5.25	30.00	8" CDC EMD-9720			*		
DA 80-FJ			19.00	5.25	30.00	8" Fujitsu 2300					
DA 90-CDC			19.00	10.50	30.00	9" CDC 9710/9715			Y		
DA 90-HTC			19.00	10.50	30.00	9" Hitachi DK815			Y		
DA 90-NEC			19.00	10.50	30.00	9" NEC D2300			Y		
DA523-xxx			19.00	10.50	25.13	Q-bus Chassis		12			
Zoltech Corporation 818 780-1800											
VCQ-11/Model 11	Y	N	19.00	5.25	17.00	Desktop				Y	$500
VCQ-11/Model 16	Y	N	19.00	5.25	17.00	Subsystem Chassis				Y	$925
VCQ/Model 20	N	Y	19.00	5.25	17.00	Card Cage Chassis		32		Y	$1,250
VCQ/Model 28	Y	N	19.00	5.25	17.00	Card Cage Chassis		32		Y	$1,300
VHQ-11/Model 11	Y	N	19.00	10.50	17.00	Desktop				Y	$750
VHQ-11/Model 16	Y	N	19.00	10.50	17.00	Subsystem Chassis				Y	$1,500
VHQ-11/Model 30	N	Y	19.00	5.25	17.00	Integrated Systems		32		Y	$1,775
VHQ-11/Model 38	Y	N	19.00	10.50	17.00	Integrated Systems		32		Y	$1,795
VHQ/Model 20	N	Y	19.00	10.50	17.00	Card Cage Chassis		56		Y	$2,350
VHQ/Model 28	Y	N	19.00	10.50	17.00	Card Cage Chassis		56		Y	$2,350
VLQ-11/Model 11	Y	N	19.00	10.50	25.50	Desktop				Y	$850
VLQ-11/Model 30	N	Y	19.00	10.50	25.50	Integrated Systems		56		Y	$3,000
VQ-11/Model 11	Y	N	19.00	5.25	25.5	Desktop				Y	$575
VQ-11/Model 16	Y	N	19.00	5.25	25.50	Subsystem Chassis				Y	$1,150
VQ-11/Model 30	N	Y	19.00	5.25	25.50	Integrated Systems		32		Y	$1,500

System And Peripheral Enclosures

Damac Products, Inc.

■ 9000 Series
26.00 Inch Width • 72.00 Inch Height • 32.00 Inch Depth
The 9000 Series is a modem rack cabinet that features adjustable tracks for locating mounting rails anywhere within the cabinet. Accessories available.

Dyna Five Corporation

■ BA123
Large Systems Cabinet
Available in pedestal, rackmount, and tabletop configurations. Has panels for up to 32 lines, supports 22 bit addressing, front access to peripherals, designed for UL and FCC compliance.

■ D5-EE101
Q-bus Systems Cabinet • 19.00 Inch Width • 5.25 Inch Height • 19.75 Inch Depth
Available in tabletop and rackmount configurations. Doubles the system size providing power and back plane space for additional peripheral, communication and process I/O controllers. Physically and functionally compatible with DEC Q-bus BA11 enclosures.

■ D5-PE100
Q-bus Systems Cabinet
Available in tabletop or rackmount versions. Provides greater capacity for Micro 11 and MicroVAX applications where only additional peripherals are required.

■ D5-PE101
Q-bus Systems Cabinet • 19.00 Inch Width • 5.25 Inch Height • 19.75 Inch Depth
Provides mounting and power for disk and tape drives in desktop and rackmount configurations. Designed for DEC BA11 and Micro 11/MicroVAX style boxes.

■ D5-SE100
LSI-11 Systems Cabinet
Available in pedestal, tabletop, or rackmount versions. Supports Micro 11/MicroVAX processors. Has 16-, 18-, and 22-bit addressing and multiple drive support.

■ D5-SE101
Q-bus Systems Cabinet • 19.00 Inch Width • 5.25 Inch Height • 19.75 Inch Depth
Available in tabletop or rackmount versions. This unit is for mounting processor, memory and controllers. Compatible with DEC Q-Bus BA11 enclosures, the unit accommodates the latest options such as 22-bit addressing, 1173 and MicroVAX processors.

■ D5-VS102
VME Large Systems Cabinet
Accommodates up to 12 double height boards and provides internal mounting for a wide variety of 5.25 " and 8" peripherals. Enclosure provides 750 watt power supply. Available in pedestal, rackmount, and desktop configurations.

■ PE-103
8" Fujitsu Drive Cabinet • 19.00 Inch Width • 5.25 Inch Height • 24.50 Inch Depth
Unit includes power supply, shock and vibration mounting hardware, cooling fans, and power cable. Also includes thermal monitor and shutdown protection. Available in tabletop or rackmount.

■ SE-105
DEC BA123 Cabinet
Provides a 12 slot backplane, 750 watts, mounting for five 5.25" peirpherals, and will support either MicroVAX II or MicroPDP 11 processors and memory. Configurations available for pedestal, rackmount, and tabletop.

■ SE-108
Q-bus Systems Cabinet • 19.00 Inch Width • 5.25 Inch Height • 19.75 Inch Depth
Available in rackmountable and tabletop configurations. Features include mounting for two half high 5.25" peripherals, support for MicroPDP 11 processors, four quad slot backplane, and a user configurable rear loading back panel.

Everest Electronic Equipment

■ EH-123
Micro Systems Cabinet • 17.00 Inch Width • 20.12 Inch Height • 27.75 Inch Depth • $950
Compatible with the DEC BA123 World Box, this rollaround cabinet is designed to accommodate multiple configurations for disk subsystems expansion, and system integration.

■ EH-9642-EA
Mid-sized Systems Cabinet • 21.25 Inch Width • 41.75 Inch Height • 30.00 Inch Depth • $1,975
Used as single bay applications for PDP 11/24 and disk drives. Provides space for up to 24 communication lines.

■ EH-9642-ES
Mid-sized Systems Cabinet • 21.25 Inch Width • 41.75 Inch Height • 30.00 Inch Depth • $1,425
Used for a wide variety of general purpose applications where I/O connections are not required.

■ EH-9645-EA
Shielded Cabinet • 29.10 Inch Width • 39.50 Inch Height • 30.00 Inch Depth • $2,250
For PDP-11/24 and PDP-11/14 systems. Ideal for mounting CPUs, dual disk drives and communication lines.

■ EH960-F
Large Systems Cabinet • 18.31 Inch Width • 71.50 Inch Height • 37.75 Inch Depth • $2,250
Primarily used for PDP Series upgrades and expansion requirements.

■ EH9602-19F
Heavy Load Cabinet • 22.56 Inch Width • 60.42 Inch Height • 30.00 Inch Depth • $1,487
A 19" corporate style cabinet for standalone or expansion applications that demand structural strength.

■ EH9602-24F
Large Systems Cabinet • 27.50 Inch Width • 60.42 Inch Height • 30.00 Inch Depth • $1,790
A 24" corporate style cabinet especially useful for large VAX upgrade applications.

■ EH9610-F
Small Systems Cabinet • 21.25 Inch Width • 30.75 Inch Height • 30.00 Inch Depth • $935
Small systems cabinet using PDP-11, small disk drives and MicroVAX.

■ EH9642-AF
Disk Drive Cabinet • 21.25 Inch Width • 41.75 Inch Height • 36.00 Inch Depth • $1,325
This model is designed for front-loading RA60 disk drives.

■ EH9642-AP
Disk Drive Cabinet • 21.25 Inch Width • 41.75 Inch Height • 36.00 Inch Depth • $1,325
This model is designed for top-loading disk drives and other equipment requiring a depth of 36 inches.

■ EH9642-AS
Disk Drive Cabinet • 21.25 Inch Width • 41.75 Inch Height • 36.00 Inch Depth • $1,325
This model is designed for top-loading RA80/81 disk drives.

■ EH9642-FA
Mid-sized Systems Cabinet • 21.25 Inch Width • 41.75 Inch Height • 30.00 Inch Depth • $1,850
Same as the EH9642-AS. This shielded cabinet is also ideal for disk drives, BA-11 expansion boxes and communication lines.

■ EH9642-FC
Mid-sized Systems Cabinet • 21.25 Inch Width • 41.75 Inch Height • 30.00 Inch Depth • $1,850
The EH-9642-FC is a shielded UNIBUS expansion cabinet, specifically designed for the VAX 11/730 and 11/750.

■ EH9642-FFL
Medium Systems Cabinet • 21.25 Inch Width • 41.75 Inch Height • 30.00 Inch Depth • $1,066
A general purpose front load unshielded cabinet.

■ EH9642-FTL
Medium Systems Cabinet • 21.25 Inch Width • 41.75 Inch Height • 30.00 Inch Depth • $1,009
A general purpose front load unshielded cabinet for PDP-11/73 systems.

■ EH9642-JA
Micro Systems Cabinet • 26.59 Inch Width • 41.75 Inch Height • 36.00 Inch Depth • $3,465
An unshielded micro systems cabinet that offers flexibility for devices requiring more than conventional cooling.

■ EH9642-SC
Tape Drive Cabinet • 21.25 Inch Width • 41.75 Inch Height • 30.00 Inch Depth • $1,541
Top load streamer cabinet for the CDC family of streaming or start/stop tape drives. There is a vented side panel kit available for the EH9642 Series that starts at $485.

■ EH9646-ES
Large Systems Cabinet • 21.25 Inch Width • 58.00 Inch Height • 30.00 Inch Depth • $1,485

■ EH9646-JA
Large Systems Cabinet • 21.25 Inch Width • 60.00 Inch Height • 30.00 Inch Depth • $2,128
The EH9646-ES and -JA provide front load shielded rackmount space.

■ EH9646F
Mid-sized Systems Cabinet • 21.25 Inch Width • 60.25 Inch Height • 30.00 Inch Depth • $1,435
This model may also be used as an expansion cabinet for larger systems.

■ EH9647-AA
Large Systems Cabinet • 29.10 Inch Width • 58.00 Inch Height • 30.00 Inch Depth • $2,375
This model is a shielded cabinet for custom configuration requirements. This unit will house expander boxes, disk drives as well as CPUs.

■ TWIO-SABRE
Micro Pedestal Cabinet • 11.50 Inch Width • 24.30 Inch Height • 31.20 Inch Depth • $810
Accommodates up to four 8" Sabre series (9720) disk drives from Imprimis Technology (CDC) utilizing the standard 10.5 inch enclosure.

Hybricon

■ 027-088-04
Card Cage • 2.87 Inch Width • 12.37 Inch Height • 10.00 Inch Depth • $4,310
Quad size height with four slots.

■ 027-088-08
Card Cage • 4.75 Inch Width • 11.88 Inch Height • 10.00 Inch Depth • $386
Quad size height with eight slots.

■ 027-095-10
Card Cage • 6.80 Inch Width • 12.60 Inch Height • 10.00 Inch Depth • $481
Quad size height with ten slots.

■ 027-302
Card Cage • 7.97 Inch Width • 5.75 Inch Height • 9.45 Inch Depth • $345
Quad size height with 12 slots.

■ 027-372-04
Card Cage • 2.87 Inch Width • 12.37 Inch Height • 10.00 Inch Depth • $310
Quad size height with four slots.

Interlogic Industries

■ DOV11-B
LSI-11 Backplane • $235
Expanded version of the standard LSI-11 backplane. Rows A, B, C, and D are dedicated to the LSI-11. Bus slot #1 is reserved for the LSI-11 processor board.

■ H-9270
Q-bus Backplane • $195
This model is a 22-bit backplane and card file with four quad slots designed to accept Q-bus processors, memory boards, and optional modules.

■ H-9275
Q-bus Backplane • $365
This model is an 18- to 22-bit backplane and card file with nine quad slots designed to accept Q-bus compatible plug-in boards.

■ H-9278
Q-bus Backplane • $190
Wired for 22-bit addresssing and equipped with socketed termination resistors. Contains 13 dual Q-22 bus slots and three C-D slots wired for MicroVAX applications.

Lion Cabinets

■ DT-525
The Lion range of desktop enclosures are available for mounting 3.5", 5.25", and 8" devices. The enclosures are available in single or dual form. This model is for 5.25" devices.

■ DT-800
The Lion range of desktop enclosures are available for mounting 3.5", 5.25", and 8" devices. The enclosures are available in single or dual form. This model is for 8" devices.

■ **L-123-A**
Disk Drive Cabinet • 17.00 Inch Width • 24.5 Inch Height • 29.50 Inch Depth
Cabinet holds three 5.25" devices.

■ **L-123-B**
Disk Drive Cabinet • 17.00 Inch Width • 24.5 Inch Height • 29.50 Inch Depth
Cabinet holds two 5.25" devices and one 8" drive.

■ **L-123-C**
Disk Drive Cabinet • 17.00 Inch Width • 24.5 Inch Height • 29.50 Inch Depth
Cabinet holds one 5.25" devices and two 8" drives.

■ **RM-525**
Disk Drive Cabinet

■ **RM-800**
Disk Drive Cabinet
The Lion range of 19" enclosures are available for mounting 8" devices. The RM-525 and -800 enclosures are available to mount one or two full height devices and are supplied with mounting hardware, fan cooling and power supply. The RM-800 includes a 180 Watt DC power supply.

■ **UND-FP**
Large Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 36.00 Inch Depth
Front loading cabinet equipped with a top cover and front filler panels.

■ **UND-NP**
Large Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 36.00 Inch Depth
Front loading cabinet equipped with a top cover and a lower front filler panel.

■ **UND-TOP**
Large Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 36.00 Inch Depth
This is a top loading cabinet equipped with a top trim kit and 2/3 lower front filler panels or a 2/3 lower front door.

■ **UNE-FD**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth

■ **UNE-FP**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth
Front loading cabinet with a top cover and front filler panels.

■ **UNE-HDP**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth
Front loading cabinet equipped with a top cover, a 2/3 height lower front door, and a front top filler panel.

■ **UNE-KEY**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth
A CDC Keystone horizontal mounting tape cabinet.

■ **UNE-NP**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth
Front loading cabinet equipped with a top cover and a lower front filler panel.

■ **UNE-STC**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth
An STC 2920 horizontal mounting tape cabinet.

■ **UNE-TED**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth
A Thorn EMI 8900 horizontal mounting tape cabinet.

■ **UNE-TOP**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth
Top loading cabinet equipped with a top trim kit and 2/3 lower front filler panels or a 2/3 lower front door.

■ **UNS-FP**
Small Systems Cabinet • 21.25 Inch Width • 31.62 Inch Height • 31.37 Inch Depth
Front loading cabinet with a top cover and front filler panels.

■ **UNS-NP**
Small Systems Cabinet • 21.25 Inch Width • 31.62 Inch Height • 31.37 Inch Depth
Front loading cabinet with a top cover and lower front filler panels.

■ **UXT-FD**
Large Systems Cabinet • 21.25 Inch Width • 61.62 Inch Height • 31.37 Inch Depth
Front loading cabinet with a top cover.

■ **UXT-FP**
Large Systems Cabinet • 21.25 Inch Width • 61.62 Inch Height • 31.37 Inch Depth
Front loading cabinet with a top cover and front filler panels.

■ **UXT-HDP**
Large Systems Cabinet • 21.25 Inch Width • 61.62 Inch Height • 31.37 Inch Depth
Front loading cabinet with a top cover, a 1/2 height lower front door and a front top filler panel.

■ **UXT-NP**
Large Systems Cabinet • 21.25 Inch Width • 61.62 Inch Height • 31.37 Inch Depth
Front loading cabinet with a top cover and a lower front top filler panel.

■ **V40-FHFD**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth
Equipped with mounting brackets. The V40-HHFD is another model that features a half-height front door.

■ **V60-FHFD**
Large Systems Cabinet • 21.25 Inch Width • 61.62 Inch Height • 31.37 Inch Depth
Equipped with mounting brackets. The V60-HHFD is another model that features a half-height front door.

■ **VAL-30**
Medium Systems Cabinet • 21.25 Inch Width • 31.62 Inch Height • 24.37 Inch Depth

■ **VAL-30C**
Small Systems Cabinet • 21.25 Inch Width • 31.62 Inch Height • 24.37 Inch Depth
The VAL-30 and-30C are front loading cabinets with top covers and lower front filler panels.

■ **VAL-40**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth

■ **VAL-40C**
Medium Systems Cabinet • 21.25 Inch Width • 41.62 Inch Height • 31.37 Inch Depth
ThVAL-40 and-40C offer the same features and options as the VAL-60.

■ **VAL-60**
Large Systems Cabinet • 21.25 Inch Width • 61.62 Inch Height • 31.37 Inch Depth
Front loading cabinet with a top cover, leveling feet and castors, and a lower front filler panel. Options include a stabilzer bar (VAL-SBAR), 1.25" (VAL-0125), 1.75" (VAL-0175), 3.5" (VAL-0350), 5.25" (VAL-0525), and 10.5" (VAL-1050) front filler panels.

■ **VAL-60C**
Large Systems Cabinet • 21.25 Inch Width • 61.62 Inch Height • 31.37 Inch Depth
Front loading communications cabinet equipped with a top cover, a lower front filler panel, and leveling feet and castors. Options include a stabilizer bar (VAL-SBAR), a fixed mounting tray (CAB-SHFX), and a sliding mounting tray (CAB-SHSL).

■ **VXE-FD**
Large Systems Cabinet • 27.50 Inch Width • 60.50 Inch Height • 30.50 Inch Depth

■ **VXE-FP**
Large Systems Cabinet • 27.50 Inch Width • 60.50 Inch Height • 30.50 Inch Depth
UNIBUS expansion cabinet with long side filler strips and front filler panels.

■ **VXE-HDP**
Large Systems Cabinet • 27.50 Inch Width • 60.50 Inch Height • 30.50 Inch Depth
UNIBUS expansion cabinet with a 1/2 height lower front door, a 1/2 height top side filler strip and top filler panels.

■ **VXE-NP**
Large Systems Cabinet • 27.50 Inch Width • 60.50 Inch Height • 30.50 Inch Depth
UNIBUS expansion cabinet with long side filler strips only.

■ **VXE-SBI**
Large Systems Cabinet • 27.50 Inch Width • 60.50 Inch Height • 30.50 Inch Depth
Processor (SBI) expansion cabinet with an SBI system unit and PSU mounting, fan cooling, and power looms for PSUs.

MDB Systems, Inc.

■ **MLSI-BA11-2000-F**
Q-bus Chasssis • 19.00" Inch Width • 5.25" Inch Height • 18.00" Inch Depth • $1,750

■ **MLSI-BA11-2000-R**
Q-bus Chassis • 19.00" Inch Width • 5.25" Inch Height • 18.00" Inch Depth • $1,750
The MLSI-BA11-2000-F and -R are backplane assemblies and feature a Q-22 bus on all slots/rows in serpentine fashion.

■ **MLSI-BA11-2200-F**
Q-bus Chassis • 19.00" Inch Width • 5.25" Inch Height • 18.00" Inch Depth • $1,950

■ **MLSI-BA11-2200-R**
Q-bus Chassis • 19.00" Inch Width • 5.25" Inch Height • 18.00" Inch Depth • $1,950
The MLSI-BA11-2200-F and -R are backplane assemblies and feature a Q-22 bus on all slots/rows in serpentine fashion except for rows one, two, and three. Rows one, two, and three have C-D bus slots.

■ **MLSI-BA11-3000-F**
Q-bus Chassis • 19.00" Inch Width • 5.25" Inch Height • 18.00" Inch Depth • $1,650

■ **MLSI-BA11-3000-R**
Q-bus Chassis • 19.00" Inch Width • 5.25" Inch Height • 18.00" Inch Depth • $1,650
The MLSI-BA11-3000-F and -R are backplane assemblies and feature a Q-22 bus on all slots/rows in serpentine fashion. Used to expand Q-bus PDP-11 or MicroVAX II systems with additional boards.

SI Technology, Inc.

■ **3000**
Modem Cabinet • 19.00 Inch Width • 4.50 Inch Height • 12.00 Inch Depth
This enclosure allows SI Technology's fiber optic and metallic bit-drivers to be mixed and matched.

Sigma Information Systems

■ **SA-BA11N-3**
Q-bus Systems Cabinet • 19.00 Inch Width • 5.25 Inch Height • 20.00 Inch Depth • $1,578
Available in a MicroVAX configuration with three C-D slots.

■ **SA-H101**
Flexible Disk Drive Cabinet • 19.00 Inch Width • 5.25 Inch Height • 24.75 Inch Depth • $709
Designed for mounting one or two Shugart SA800/850 drives side by side.

■ **SA-H110**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 6.00 Inch Height • 20.50 Inch Depth • $1,578
A tabletop (or optional free-standing floor) enclosure that provides power and mounting for up to two full-sized drives.

■ **SA-H112/2**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 5.25 Inch Height • 20.00 Inch Depth • $698
Supports (1) two 5.25" drives or (2) one 5.25" drive and one 8" flexible drive, (3) one tape cartridge, or (4) two 8" slimline drives.

■ **SA-H115**
5.25/8" Disk Drive Cabinet • 12.00 Inch Width • 26.5 Inch Height • 20.00 Inch Depth • $2,602
Provides power and mounting for up to two full-sized 5.25" drives, an 8" drive, and a removable 8" tape cartridge or floppy disk drive.

■ **SA-H116**
9" Disk Drive Cabinet • $649
The SA-H116 provides mounting space for three industry-standard 5.25" drives or one 8" drive.

■ **SA-H116/2**
5.25" Disk Drive Cabinet • 13.00 Inch Width • 6.87 Inch Height • 18.00 Inch Depth • $541
A tabletop enclosure that provides power and mounting for up to three full-sized 5.25" drives.

■ **SA-H123 S/250**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 7.00 Inch Height • 26.00 Inch Depth • $1,093
Supports two drives and is available in either tabletop or rackmount configurations.

■ **SA-H123S/2382**
8" Disk Drive Cabinet • 19.00 Inch Width • 7.00 Inch Height • 24.00 Inch Depth • $1,558
Supports two 8" Fujitsu M2382 drives and is available in either tabletop or rackmount configurations.

■ **SA-H123S/350**
8" Disk Drive Cabinet • 19.00 Inch Width • 7.00 Inch Height • 26.00 Inch Depth • $1,442
Supports either Fujitsu's M2300 series (SA-H123S/350F) or Toshiba's MK180 or MK280 series (SA-H123S/350T). Includes shock mounting brackets.

■ **SA-H124/Q**
5.25" Disk Drive Cabinet • 7.43 Inch Width • 26.5 Inch Height • 22.25 Inch Depth • $1,754
Provides power and mounting for up to four full-sized drives.

■ **SA-H125**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 5.25 Inch Height • 24.00 Inch Depth • $1,540
Available in rackmountable or standalone configurations. Also supports a slimline floppy, or 8" slimline floppies, or an 8" removable drive, or an 8" tape cartridge.

■ **SA-H125/3**
MicroVAX Systems Cabinet • 19.00 Inch Width • 5.25 Inch Height • 24.00 Inch Depth • $1,555
System chassis supports 5.25" or 8" slimline drives available with a MicroVAX backplane.

■ **SA-H136**
Q-bus Systems Cabinet • 11.70 Inch Width • 3.62 Inch Height • 13.38 Inch Depth • $753
Supports up to four dual modules.

■ **SA-H140**
Q-bus Systems Cabinet • 12.12 Inch Width • 14.00 Inch Height • 5.50 Inch Depth • $1,315
Wall-mount enclosure that may be used for industrial security or remote control applications.

■ **SA-H144**
5.25" Disk Drive Cabinet • 7.43 Inch Width • 26.50 Inch Height • 26.00 Inch Depth • $1,905
Supports (1) an 8" removable tape cartridge, (2) a floppy drive, (3) dual slimline floppies, or (4) three additional 5.25" drives.

■ **SA-H147**
Q-bus Systems Cabinet • 19.00 Inch Width • 7.00 Inch Height • 19.75 Inch Depth • $2,029
Available in both rackmount or tabletop configurations.

■ **SA-H149**
5.25/8" Disk Drive Cabinet • 19.00 Inch Width • 12.25 Inch Height • 24.00 Inch Depth • $4,500
Ruggedized enclosure that supports one 8" and two 5.25" fixed Winchesters mounted on shockmount brackets.

■ **SA-H152**
5.25" Disk Drive Cabinet • 17.00 Inch Width • 21.00 Inch Height • 24.00 Inch Depth • $5,560
Refrigerated industrial enclosure that supports three 5.25" fixed Winchesters and one removable drive mounted on shockmount brackets.

■ **SA-H154**
Q-bus Systems Cabinet • 19.00 Inch Width • 5.25 Inch Height • 22.00 Inch Depth
Available in both rackmount or tabletop configurations. An optional battery back-up is also available.

■ **SA-H155**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 12.25 Inch Height • 24.00 Inch Depth • $4,500
Ruggedized, self-contained enclosure that supports three 5.25" fixed Winchesters and/or removable media drives that are shock mounted.

■ **SA-H157**
8" Disk Drive Cabinet • 19.00 Inch Width • 7.00 Inch Height • 26.00 Inch Depth • $1,208
Supports two PRIAM 806, 807, or 808 drives and is designed for convenient installation and removal for maintenance and troubleshooting.

■ **SA-H158**
8" Disk Drive Cabinet • 7.50 Inch Width • 24.00 Inch Height • 23.00 Inch Depth • $1,840
Supports two Fujitsu, two Toshiba, or two CDC drives in a wide tower enclosure with shockmounted brackets.

■ **SA-H159**
MicroVAX II/LSI-11 Cabinet • 19.00 Inch Width • 5.25 Inch Height • 24.00 Inch Depth • $1,694
The SA-H159 is the rackmount equivalent to DEC's BA23. Provides write protect and drive status controls and indicators, and mounting for DEC RD54 drives.

■ **SA-H160**
MicroVAX II Cabinet • 19.00 Inch Width • 10.50 Inch Height • 24.00 Inch Depth • $3,134
The SA-H160 is the rackmount equivalent to DEC's BA123. Provides write protect for two or four DEC drives or four ESDI drives with Sigma's RQD11-EC disk controller.

■ **SA-H161Q**
5.25" Disk Drive Cabinet • 21.25 Inch Width • 7.25 Inch Height • 16.25 Inch Depth • $969
Tabletop enclosure that supports three half-height drives on LSI-11 systems.

■ **SA-H162**
5.25" Disk Drive Cabinet • 14.60 Inch Width • 26.87 Inch Height • 28.00 Inch Depth • $3,815
Provides expansion for the BA23 MicroVAX II box with support for four removable drives including Q-bus boards.

■ **SA-H163/3**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 5.25 Inch Height • 18.00 Inch Depth • $1,388
Removable drive expansion enclosure. Designed for ESDI or ST506 disks, featuring switch selectable capabilities and a write protect for use with Sigma's controllers.

■ **SA-H165**
8" Disk Drive Cabinet • 19.00 Inch Width • 5.25 Inch Height • 26.00 Inch Depth • $1,442
Supports dual 8" SMD disk drives such as the Fujitsu M2372 or the Toshiba MK288. Provides write protect and drive status indicators.

■ **SA-H166**
Q-bus Systems Cabinet • 19.00 Inch Width • 8.75 Inch Height • 22.00 Inch Depth • $2,948
Available with an optional battery back-up unit (BBU) and an enhanced coprocessor.

■ **SA-H168/2**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 12.25 Inch Height • 24.00 Inch Depth • $4,871
Ruggedized, self-contained system chassis that supports three fixed or removable drives. Provides integral MicroVAX patch panel for CPU status, battery back-up, and write protection.

■ **SA-H169**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 12.25 Inch Height • 26.00 Inch Depth • $10,833
Ruggedized, military chassis that supports three drives and one tape cartridge drive. Meets MIL-STD-5541 specifications.

■ **SA-H173**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 6.75 Inch Height • 22.50 Inch Depth • $1,445
Supports up to four 5.25" Winchester or removable drives, including ESDI, ST-506, or SCSI interfaces. Accommodates Sigma controller interface panels that mount in the rear I/O area.

■ **SA-H176**
Q-bus Systems Cabinet • 20.25 Inch Width • 3.50 Inch Height • 19.50 Inch Depth • $1,208
Slim tabletop enclosure that supports two fixed and/or removable 5.25" slimline drives.

■ **SA-H184**
5.25" Disk Drive Cabinet • 10.00 Inch Width • 20.75 Inch Height • 20.50 Inch Depth • $2,284
Supports up to four 5.25" Winchester drives, including ESDI or SCSI interfaces. Provides internal mounting space and power for a SCSI-ESDI adapter.

■ **SA-H185**
8" Disk Drive Cabinet • 19.00 Inch Width • 12.25 Inch Height • 26.00 Inch Depth • $3,128
Supports two 8" Fujitsu M2300 drives and one 5.25" TK50 tape drive.

■ **SA-H187**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 5.25 Inch Height • 18.00 Inch Depth • $4,150
A two drive expansion chassis designed for applications that require the use of disk drives in rugged environments. Drive canisters include an ESDI or SCSI interface.

■ **SA-H188**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 5.25 Inch Height • 22.25 Inch Depth • $1,270
Rackmount chassis t hat supports four 5.25" removable Winchester drives. Chassis contains a front console with Write protect and Ready switches and LEDs for each drive.

■ **SA-H189**
5.25" Disk Drive Cabinet • 7.00 Inch Width • 5.25 Inch Height • 15.00 Inch Depth • $353
A mini enclosure that supports one or two slimline 5.25" drives or a single full height 5.25" drive.

■ **SA-H190**
8" Disk Drive Cabinet • 19.00 Inch Width • 8.50 Inch Height • 26.00 Inch Depth • $1,716
An expansion chassis that supports two 8" Fujitsu M2300 series drives.

Summus Computer Systems

■ **SUM-ENC**

Trimm Industries

■ **D8410-CA**
Small Systems Cabinet • 21.25 Inch Width • 31.00 Inch Height • 30.00 Inch Depth
All D84xx models are among Trimm Industries Value Line products which feature flexible systems packaging at economical prices. Inside dimensions are 19x24.50x26.75.

■ **D8442-CA**
Medium Systems Cabinet • 21.25 Inch Width • 41.64 Inch Height • 30.00 Inch Depth
This model is a front loading standalone cabinet with inside dimensions of 19x35x26.75.

■ **D8442-CDC**
CDC's Keystone Cabinet • 21.25 Inch Width • 61.50 Inch Height • 30.00 Inch Depth

■ **D8442-STC**
STC's 2920 Cabinet • 21.25 Inch Width • 61.50 Inch Height • 30.00 Inch Depth

■ **D8442-TLX**
Telex's Shamrock Cabinet • 21.25 Inch Width • 61.50 Inch Height • 30.00 Inch Depth
The D8442-CDC, -STC, and -TLX are horizontal mount cabinets with inside dimensions of 19x35x26.75.

■ **D8446-CA**
Large Systems Cabinet • 21.25 Inch Width • 61.50 Inch Height • 30.00 Inch Depth
This model is a general purpose cabinet with inside dimensions of 19x52.50x26.75.

■ **D9602-CA**
Large Disk/Tape Cabinet • 27.50 Inch Width • 60.00 Inch Height • 30.00 Inch Depth
A 24" wide VAX cabinet with 19" setback rails and 5" of useable vertical space for equipment side mounting. Designed for more than 1000 pounds of load capacity and is equipped with inside dimensions of 19x52.50x26.75.

■ **D9602-DF**
Large Systems Cabinet • 27.50 Inch Width • 60.00 Inch Height • 30.00 Inch Depth

■ **D9602-EA**
Large Systems Cabinet • 27.50 Inch Width • 60.00 Inch Height • 30.00 Inch Depth
The D9602-DF and -EA models are designed specifically for VAX 780/785 UNIBUS expansion with inside dimensions of 19x52.50x26.75.

■ **D9602-NF**
Large Systems Cabinet • 21.25 Inch Width • 60.00 Inch Height • 30.00 Inch Depth
Ideal for mounting large GCR tape drives or for large disk installations. Suits Digital's 8000 Series VAX machines and is fully expandable to VAX 8600/8650 CPUs.

■ **D9602-SN**
Large Disks Cabinet • 21.25 Inch Width • 41.64 Inch Height • 30.00 Inch Depth
The D9602-SN is equipped with inside dimensions of 19x33.25x26.75.

■ **D9602-SR**
Large Systems Cabinet • 27.50 Inch Width • 41.64 Inch Height • 30.00 Inch Depth
Short VAX cabinet with a 24" wide frame and 19" setback rails. Ideal for applications requiring large load capacity in a limited area. Inside dimensions are 19x33.25x26.75.

■ **D9610-CA**
Small Systems Cabinet • 21.25 Inch Width • 31.00 Inch Height • 30.00 Inch Depth
This model is a general purpose cabinet with inside dimensions of 19x24.50x26.75.

■ **D9642-AD/AE**
Medium Systems Cabinet • 21.25 Inch Width • 41.64 Inch Height • 30.00 Inch Depth
This model is a standalone top loading cabinet with inside dimensions of 19x35x26.75.

■ **D9642-BD/BE**
Medium Systems Cabinet • 21.25 Inch Width • 41.64 Inch Height • 30.00 Inch Depth
This model is an expansion top loading cabinet with inside dimensions of 19x35x26.75.

■ **D9642-CA**
Medium Systems Cabinet • 21.25 Inch Width • 41.64 Inch Height • 30.00 Inch Depth
This model is a front loading standalone cabinet with inside dimensions of 19x35x26.75.

■ **D9642-CDC**
CDC's Keystone Cabinet • 21.25 Inch Width • 41.64 Inch Height • 30.00 Inch Depth
This is a horizontal mount tape cabinet with inside dimensions of 19x35x26.75.

■ **D9642-DA**
Medium Systems Cabinet • 21.25 Inch Width • 41.64 Inch Height • 30.00 Inch Depth

■ **D9642-STC**
STC's 2920 Series Cabinet • 21.25 Inch Width • 41.64 Inch Height • 30.00 Inch Depth

■ **D9642-TLX**
Telex's Shamrock Cabinet • 21.25 Inch Width • 41.64 Inch Height • 30.00 Inch Depth
The D9642-DA, -STC, and -TLX models are front loading expansion cabinets with inside dimensions of 19x35x26.75.

■ **D9646-AA**
Large Systems Cabinet • 21.25 Inch Width • 61.50 Inch Height • 30.00 Inch Depth
This model is a tape cabinet with inside dimensions of 19x52x26.75.

■ **D9646-BA**
Large Systems Cabinet • 21.25 Inch Width • 61.50 Inch Height • 30.00 Inch Depth
This model is a tape expansion cabinet with inside dimensions of 19x52.50x26.75.

■ **D9646-CA**
Large Systems Cabinet • 21.25 Inch Width • 61.50 Inch Height • 30.00 Inch Depth
This model is a general purpose cabinet with inside dimensions of 19x52.50x26.75.

■ **D9646-DA**
Large Systems Cabinet • 21.25 Inch Width • 61.50 Inch Height • 30.00 Inch Depth
A 60" general purpose expansion cabinet with inside dimensions of 19x52.50x26.75. It is capable of mounting a 40" cabinet along its side.

■ **D9646-EA**
Large Systems Cabinet • 21.25 Inch Width • 61.50 Inch Height • 30.00 Inch Depth
A 60" general purpose expansion cabinet with inside dimensions of 19x52.50x26.75. It is capable of mounting a 60" cabinet along its side.

■ **DA 23**
5.25" Disk Drive Cabinet
Q-bus compatible with a 350 watt continuous power supply.

■ **DA 5**
5.25" Disk Drive Cabinet • 9.20 Inch Width • 5.70 Inch Height • 13.00 Inch Depth
Available with either ST506/ESDI or SCSI/IPI I/O configurations which allow configuration flexibility.

■ **DA 50-2**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 5.25 Inch Height • 25.00 Inch Depth
The DA 50-2 is a 19" rackmount product that houses two disk drives.

■ **DA 50-4**
5.25" Disk Drive Cabinet • 19.00 Inch Width • 5.25 Inch Height • 25.00 Inch Depth
The DA 50-4 is a 19" rackmount product that houses four disk drives.

■ **DA 80-EMD**
8" CDC EMD-9720 Cabinet • 19.00 Inch Width • 5.25 Inch Height • 30.00 Inch Depth

■ **DA 80-FJ**
8" Fujitsu 2300 Cabinet • 19.00 Inch Width • 5.25 Inch Height • 30.00 Inch Depth

■ **DA 90-CDC**
9" CDC 9710/9715 Cabinet • 19.00 Inch Width • 10.50 Inch Height • 30.00 Inch Depth

■ **DA 90-HTC**
9" Hitachi DK815 Cabinet • 19.00 Inch Width • 10.50 Inch Height • 30.00 Inch Depth

■ **DA 90-NEC**
9" NEC D2300 Cabinet • 19.00 Inch Width • 10.50 Inch Height • 30.00 Inch Depth
The DA 80 Series mounts two drives side by side in 19" rackmount configurations.

■ **DA523-xxx**
Q-bus Chassis Cabinet • 19.00" Inch Width • 10.50" Inch Height • 25.13" Inch Depth
Top-access, twelve slot Q-bus CD backplane mounting for up to five 5.25" peripheral drives. Includes a 500 watt power supply for the system and two I/O devices. Individual 50 watt power supplies provide power for additional peripheral drives.

Zoltech Corporation

■ **VCQ-11/Model 11**
Basic Chassis • 19.00 Inch Width • 5.25 Inch Height • 17.00 Inch Depth • $500
Basic minimum chassis includes sheet metal chassis and AC input assembly. Does not include power supplies, card cages, nor control panels. Also available in tower and rackmount versions.

■ **VCQ-11/Model 16**
Subsystem Cabinet • 19.00 Inch Width • 5.25 Inch Height • 17.00 Inch Depth • $925
Basic mass storage subsystem chassis complete except for the storage devices and I/O cables. Includes rear I/O panel, 100W P/S, DC cages, and mounting kits.

■ **VCQ/Model 20**
Card Cage Chassis • 19.00 Inch Width • 5.25 Inch Height • 17.00 Inch Depth • $1,250

■ **VCQ/Model 28**
Card Cage Chassis • 19.00 Inch Width • 5.25 Inch Height • 17.00 Inch Depth • $1,300
The VCQ/Model 20 and 28 are basic card cages that include full function control panels, deluxe I/O panels, 22-bit Q-bus card cages, and optional C-D interconnect 140W P/S.

■ **VHQ-11/Model 11**
Basic Chassis • 19.00 Inch Width • 10.50 Inch Height • 17.00 Inch Depth • $750
Basic minimum chassis includes sheet metal chassis and AC input assembly. Does not include power supplies, card cages, nor control panels. Also available in tower and rackmount versions.

■ **VHQ-11/Model 16**
Subsystem Cabinet • 19.00 Inch Width • 10.50 Inch Height • 17.00 Inch Depth • $1,500
Basic mass storage subsystem chassis complete except for the storage devices and I/O cables. Includes rear I/O panel, 250W P/S, DC cages, and mounting kits.

■ **VHQ-11/Model 30**
Integrated Systems Cabinet • 19.00 Inch Width • 5.25 Inch Height • 17.00 Inch Depth • $1,775

■ **VHQ-11/Model 38**
Integrated Systems Cabinet • 19.00 Inch Width • 10.50 Inch Height • 17.00 Inch Depth • $1,795
The VHQ-11/Model 30 and 38 are basic integrated systems chassis that include a 22-bit Q-bus card cage, drive mounting kits, power cables, a deluxe I/O panel, and a full function control panel at 250W P/S.

■ **VHQ/Model 20**
Card Cage Chassis • 19.00 Inch Width • 10.50 Inch Height • 17.00 Inch Depth • $2,350

■ **VHQ/Model 28**
Card Cage Chassis • 19.00 Inch Width • 10.50 Inch Height • 17.00 Inch Depth • $2,350
The VHQ/Model 20 and 28 are basic card cage chassis that include full function control panels, deluxe I/O panels, 22-bit Q-bus card cages, and optional C-D interconnect 400W P/S.

■ **VLQ-11/Model 11**
Basic Chassis • 19.00 Inch Width • 10.50 Inch Height • 25.50 Inch Depth • $850
Basic minimum chassis includes sheet metal chassis and AC input assembly. Does not include power supplies, card cages, nor control panels. Also available in tower and rackmount versions.

■ **VLQ-11/Model 30**
Integrated Systems Cabinet • 19.00 Inch Width • 10.50 Inch Height • 25.50 Inch Depth • $3,000
Basic integrated systems chassis includes a 22-bit Q-bus card cage, drive mounting kits, power cables, a deluxe I/O panel, and a full function control panel at 500W P/S.

■ **VQ-11/Model 11**
Basic Chassis • 19.00 Inch Width • 5.25 Inch Height • 25.5 Inch Depth • $575
Basic minimum chassis includes sheet metal chassis and AC input assembly. Does not include power supplies, card cages, nor control panels. Also available in tower and rackmount versions.

■ **VQ-11/Model 16**
Subsystem Cabinet • 19.00 Inch Width • 5.25 Inch Height • 25.50 Inch Depth • $1,150
Basic mass storage subsystem chassis complete except for the storage devices and I/O cables. Includes rear I/O panel, 200W P/S, DC cages, and mounting kits.

■ **VQ-11/Model 30**
Integrated Systems Cabinet • 19.00 Inch Width • 5.25 Inch Height • 25.50 Inch Depth • $1,500
Basic integrated systems chassis includes a 22-bit Q-bus card cage, drive mounting kits, power cables, a deluxe I/O panel, and a full function control panel at 250W P/S.

GRAPHICS CONTROLLERS

Model	Supported Monitor Size	Color/ Monochrome	Resolution (dpi)	Memory Capacity (Bytes)	GIN Device Support	Terminal Emulation	Equipment Dimensions	Serial/Parallel	Supported CPUs	3-D	Warranty	Price
Advanced Technology Center 213 568-9119												
TwinTerm						VT220/240						
Camintonn Corporation 714 553-0247												
AST-220		M							UNIBUS			$595
AST-220C		C/M							UNIBUS			$795
Digital Instruments Corporation 800 222-IMAX												
QD512 RGB		C	512x512	256K			Q				1 yr	$3,940
International Software Corporation 303 526-0388												
ViewMate	19"	M	1280x960	3M	Y	VT220		S	UNIBUS			$4,995
LSI Logic Sciences, Inc. 713 879-0536												
HSR-11B		C/M							U/B			
Turbograph-300			300x300						U/B			
Turbograph-700									U/B			
Matrox Electronic Systems 514 685-2630												
QG-640	19"	C	640x480	512K			Q		Q-bus	Y	6 m	$2,595
Mega Vision 805 964-1400												
1024XM									UNIBUS			$40,000+
Metheus Corporation 503 690-1550												
1104		C	1280x1024	2M*	Y*			S*	UNIBUS	N	1 yr	$1,595
1124		C	1024x768	512K	N				UNIBUS	N	1 yr	$2,195
1128		C	1024x768	1M	Y				UNIBUS	N	1 yr	$2,995
Omega 3600		C	1280x1024	256K	Y*			S*	UNIBUS	N	90 d	$17,000+
Omega 3700		C	2048x2048	256K	Y*			S*	UNIBUS	N	90 d	$40,000+
Omega 500		C	1280x1024		Y*			S*	UNIBUS	N	90 d	$13,000+
Peritek Corporation 415 531-6500												
VCG-Q	19"	C	512x512	64K			D		Q-bus		6 m	$1,700
VCH-Q	19"	C	512x512	256K					Q-bus		6 m	$2,280
VCK-Q/U	19"	C	1024x1024	2.5M	Y	X Windows	Q		U/Q		6 m	$3,495+
VCK24-Q/U	19"	C	1024x1024	4M		X Windows	Q		U/Q		6 m	$9,995+
VCL-Q	19"	C	1280x1024	4.5M	Y	X Windows			U/Q		6 m	
VCM-Q	19"	C	1280x1024	3M	Y	X Windows			Q-bus		6 m	
VCW-Q	19"	C	640x512	512K					Q-bus		6 m	$1,700+
VCX-Q/U	19"	C	512x512	800K	Y		Q		U/Q		6 m	$5,215+
VRA-Q	15"	M		1K					Q-bus		6 m	$615
VRA-U	15"	M		1K					UNIBUS		6 m	$670
VRG-Q	15"	M	512x512	16K					Q-bus		6 m	$1,150
VRH-Q	15"	M	1024x1024	64K					Q-bus		6 m	$1,950
VRS-Q	15"	M	512x512	20K					Q-bus		6 m	$1,650
Versatec 800 538-6477												
260 Series		C	1280x1024									$5,495
Virtual Imaging 408 737-3700												
FCD419		C	1280x1024	3.2M				S	UNIBUS			
MCD419	19"	M	1280x1024	3.2M				S	UNIBUS			
PCD419		C	1280x1024	3.2M				S	UNIBUS			

HOST ADAPTERS

Model	Disk Support	Tape Support	Bus Interface	Data Buffer Size (Bytes)	DMA	Device Interface	Priority Level	Command Buffer	Transfer Rate	MSCP/TMSCP	Board Size	Warranty	Price
Able Computer 714 553-1188													
EH128									10Mbps			1 yr	$12,750
FP105			Q-bus		Y	RS422	4				Q	1 yr	$2,500
FP110			UNIBUS		Y	RS422	5				Q	1yr	$3,000
VB512			Bibus				5		1Mbps			1 yr	$3,000
Bit 3 Computer Corporation 612 881-6955													
405			Q-bus				4-7				Q	1 yr	$2,495
431			Q-bus		Y		4-7		1Mbps		Q	1 yr	$2,695
432			Q-bus		Y		4-7		1Mbps		Q	1 yr	$2,695
433			Q-bus		Y		4-7		1Mbps		Q	1 yr	$3,895
445			Q-bus				4-7				Q	1 yr	$2,695
CMD Technology, Inc. 714 549-4422													
CDU-700/M	Y		UNIBUS	16K	Y	SCSI	4	Y	2Mbps	Y/-	H	1 yr	$1,650
CDU-700/OM	Y		UNIBUS	16K	Y	SCSI	4	Y	2Mbps	Y/-	H	1 yr	$2,250
CDU-700/T		Y	UNIBUS	16K	Y	SCSI	4	Y	2Mbps	-/Y	H	1 yr	$1,750
CDU-700/TM	Y	Y	UNIBUS	16K	Y	SCSI	4	Y	2Mbps	Y/Y	H	1 yr	$2,250
CDU-712/M	Y		UNIBUS	16K	Y	SCSI	4	Y	2Mbps	Y/-	Q	1 yr	$1,895
CDU-712/OM	Y		UNIBUS	16K	Y	SCSI	4	Y	2Mbps	Y/-	Q	1 yr	$2,495
CDU-712/T		Y	UNIBUS	16K	Y	SCSI	4	Y	2Mbps	-/Y		1 yr	$1,995
CDU-712/TM	Y	Y	UNIBUS	16K	Y	SCSI	4	Y	2Mbps	Y/Y		1 yr	$2,495
CQD-200/M	Y		Q-bus	16K	Y	SCSI	4-5	Y	2Mbps	Y/-	D	1 yr	$1,250
CQD-200/OM	Y		Q-bus	16K	Y	SCSI	4-5	Y	2Mbps	Y/-	D	1 yr	$1,750
CQD-200/T		Y	Q-bus	16K	Y	SCSI	4-5	Y	2Mbps	-/Y	D	1 yr	$1,350
CQD-200/TM	Y	Y	Q-bus	16K	Y	SCSI	4-5	Y	2Mbps	Y/Y	D	1 yr	$1,750
CQD-220/M	Y		Q-bus		Y	SCSI	4-5	Y	4.8Mbps	Y/-	D	1 yr	$1,650
CQD-220/TM	Y	Y	Q-bus		Y	SCSI	4-5	Y	4.8Mbps	Y/Y	D	1 yr	$2,150
Emulex Corporation 714 662-5600													
UC04M/MO	Y		Q-bus	20K		SCSI		Y		Y/Y	D	1 yr	$1,800+
UC07	Y	Y	Q-bus	64K		SCSI			2Mbps	Y/Y	Q	1 yr	$1,600
UC07-III	Y	Y	Q-bus	64K		SCSI			2Mbps	Y/Y	Q	1 yr	$1,600
UC08	Y	Y	Q-bus	64K		SCSI			2Mbps	Y/Y	Q	1 yr	$2,050
UC08-III	Y	Y	Q-bus	64K		SCSI			2Mbps	Y/Y	Q	1 yr	$2,050
UC14M/MO	Y	Y	UNIBUS	20K			5			Y/Y	Q	1 yr	$2,200+
Ikon Corporation 206 728-6465													
10077			Multibus I			DR11-W						1 yr	$1,200
10083			BERSAbus		Y	DR11-W						1 yr	$2,150
10084			VMEbus		Y	DR11-W						1 yr	$1,250
10087			Multibus		Y	DR11-W						1 yr	$1,450
10089			VMEbus		Y	DR11-W						1 yr	$1,500
10094			PC/ATbus		Y	DR11-W						1 yr	$750
Intel Corporation 602 869-3805													
FASTPATH 9750D													$80,000+
MDB Systems, Inc. 714 998-6900													
MDB/MLSI-DW11			U/Q		Y						H/Q	1 yr	$1,225
MDB/MLSI-DWQ11			U/Q		Y						H/Q	1 yr	$1,200
Memory Sciences Corporation 703 361-9745													
FASTOR	Y	Y	U/Q/B	1M	Y		4	1M	4.8Mbps			90 d	
Qualogy 408 434-5200													
QLC-1100	Y	N	UNIBUS			SCSI	4-7			-/Y			$2,395

HOST ADAPTERS

Model	Disk Support	Tape Support	Bus Interface	Data Buffer Size (Bytes)	DMA	Device Interface	Priority Level	Command Buffer	Transfer Rate	MSCP/TMSCP	Board Size	Warranty	Price
Sigma Information Systems 714 630-6553													
SDC-HA11	Y	Y	Q-bus	Y	Y	SASI	4-7	Y	.8Mbps		D	1 yr	$354
Simpact Associates, Inc. 619 565-1865													
CPI 12000			Q-bus		Y								
VCI 8000			Q-bus		Y								
TD Systems, Inc. 508 937-9465													
QDO	Y		Q-bus		Y	SCSI	4		1.5Mbps	Y/-	D		$1,395
QDT	Y	Y	Q-bus		Y	SCSI	4		1.5Mbps	Y/Y	D		$1,995
QTO		Y	Q-bus		Y	SCSI	4		1.5Mbps	-/Y	D		$1,395
TDL-12	Y		Q-bus		Y	SCSI	4		.8Mbps	Y/-	D		$695
UDO	Y		UNIBUS		Y	SCSI	4-7		1.5Mbps	Y/-	Q		$1,595
UDT	Y	Y	UNIBUS		Y	SCSI	4-7		1.5Mbps	Y/Y	Q		$2,195
UHA-11	Y		UNIBUS		Y	SCSI	4-7		.6Mbps		Q		$895
UTO		Y	UNIBUS		Y	SCSI	4-7		1.5Mbps	-/Y	Q		$1,595
U. S. Design Corporation 301 577-2880													
HA-1108	Y	Y	Q-bus			SCSI	4			Y/-	H		$1,250
HA-1109	Y	Y	Q-bus			SCSI	4			Y/-	H		$1,750
HA-1128		Y	Q-bus							-/Y	D		$1,595
HA-1158	Y	Y	UNIBUS			SCSI	4			Y/-	H		$1,500
HA-1178		Y	UNIBUS							-/Y	Q		$1,850

IEEE-488 CONTROLLERS

Model	Talker/ Extended Talker	Listener/ Ext. Listener	Min. DMA Transfer Rate (bps)	Source/Acceptor Handshaking	Pass/Receive Control	Max. DMA Transfer Rate (bps)	Serial/Parallel	System Controller	Supported CPUs	Equipment Dimensions	Warranty	Price
Design Analysis Associates 801 753-2212												
ICA									BIbus			
National Instruments 512 250-9119												
GPIB-MV3000	Y/Y	Y/Y		Y/Y	Y/Y	250K	Y/Y	Y	Q-bus	D	2 yrs	$2,095+
GPIB-MVII	Y/Y	Y/Y		Y/Y	Y/Y	250K	Y/Y		Q-bus	D	2 yrs	$1,995
GPIB11 V-1	Y/Y	Y/Y		Y/Y	Y/Y	50K	Y/Y	Y	Q-bus	D	2 yrs	$795+
GPIB11 V-2	Y/Y	Y/Y		Y/Y	Y/Y	250K	Y/Y	Y	Q-bus	D	2 yrs	$1,495+
GPIB11-1	Y/Y	Y/Y	250K	Y/Y	Y/Y	500K	Y/Y	Y	UNIBUS	H	2 yrs	$1,395+
GPIB11-2	Y/Y	Y/Y	250K	Y/Y	Y/Y	500K	Y/Y	Y	UNIBUS	H	2 yrs	$2,195

PERIPHERAL INTERFACE CONTROLLERS

Model	# of Supported Drives	Hard Sector Support	Drive Interface	Soft Sector Support	Bad Block Replacement	Bus Loading	Overlapping Seeks	Max. Access Time (ms)	Bus Interface	ECC	Warranty	Price
U. S. Design Corporation 301 577-2880												
4200-05	4	Y	SCSI	Y			Y	120	UNIBUS	Y		
4200-20	4	Y	SCSI	Y			Y	120	UNIBUS	Y		
4220-05	4	Y	SCSI	Y			Y	120	UNIBUS	Y		
4220-20	4	Y	SCSI	Y			Y	120	UNIBUS	Y		
4240-05	4	Y	SCSI	Y			Y	120	UNIBUS	Y		
4240-20	4	Y	SCSI	Y			Y	120	UNIBUS	Y		
Webster Computer Corporation 408 745-0660												
WQESD	4		ESDI		Y	1AC/1DC	Y	4		Y	1 yr	
WQSMD	2		SMD		Y	1AC/1DC	Y	4		Y	1 yr	
WUESD	4		ESDI		Y	1AC/1DC	Y	4		Y	1 yr	$2,800
WUSMD	4		SMD		Y	1AC/1DC	Y	4		Y	1 yr	$3,020

PRINTER CONTROLLERS

Model	# of Printers Supported	Memory (Bytes)	Printing Speed	Supported CPUs	Resolution (dpi)	Data Transfer Rate	Software Support	Serial/Parallel	Printers Controlled	Board Size	Warranty	Price
Able Computer 714 553-1188												
PS100	1		9K+lpm	U		1Mbps	VMS	DP	Printronix	Q	1 yr	$1,500
VMZ/LPII	1		5K+lpm	U		11Kcps		P/DP		Q	1 yr	$1,800
Advanced Technologies International 408 942-1780												
DW-2		768K	8-26ppm		300			S/P				$4,990+
DW-3		2M	8-26ppm		300			S/P				$3,990+
LC-6000		8M	60ppm		7200			S/DP	LC-6026			$10,500
Advanced Vision Research 408 434-1115												
TIGer-EMS		2-8*M		PC					HP/Ricoh			$1,795
Computer Products, Inc. 305 974-5500												
GT361				Q			LPV11	DP/P	DP			
GT361T				Q			LPV11	DP/P		D		$395
Digital Associates Corporation 203 366-2261												
4110	1			U				S	DPr			
4111	1			U				S	DP			
4132-11	1			U				S				
Dyna Five Corporation 714 525-8795												
D5-LP100				Q		300Kcps		P/DP				
GEN/COMP, Inc. 617 828-2008												
2024	1		1Klpm	U				DP	HP/DP		2 yrs	$525
MDB Systems, Inc. 714 998-6900												
MDB-LP11	1		1800lpm	U		100Kcps	VMS	DP	DPr	Q	1 yr	$750
MDB-LP11-LLO	1		1800lpm	U		100Kcps	VMS	DP	DP	Q	1 yr	$950
MLSI-F-LP11	1		1800lpm	Q		100Kcps	VMS	DP	DP	D	1 yr	$510
MLSI-LP11	1		1800lpm	Q		100Kcps	VMS	DP	DP	D	1 yr	$475
QMS, Inc. 205 633-4300												
JetScript	1	3M						S/P			1 yr	$2,495

PRINTER CONTROLLERS

Model	# of Printers Supported	Memory (Bytes)	Printing Speed	Supported CPUs	Resolution (dpi)	Data Transfer Rate	Software Support	Serial/Parallel	Printers Controlled	Board Size	Warranty	Price
QMS, Inc. 205 633-4300 (continued)												
PSJet+	1	2M						S/P			90 d	$2,250
PSJet+M	1	3M						S/P			90 d	$3,495
Talaris Systems Inc. 619 587-0787												
PCS		6M	50ppm		300	.8Mbps	C	S/P	Xerox			
Tartan Technical, Inc. 508 250-9341												
Sprint It		64K		Q				S/P		Q		
The Logical Company 503 942-3610												
PCU-1000	1	256	11Kcps	U			VMS		DP		1 yr	$995
Wespercorp 714 261-0606												
DPL-11	1		2Klpm	U		300Kbps	VMS	DP/P		Q	1 yr	$690
DPL-1100	1		2Klpm	U/Q		300Kbps	VMS	DP/P	DP	D	1 yr	$430
DPL-1132	2		2Klpm	U		300Kbps	VMS	DP/P		Q	1 yr	$1,500
Xyplex, Inc. 508 264-9900												
NPC	6			U/Q		38.4Kbps	VMS	S/P	DEC LP32			$2,575

SPECIAL FUNCTION BOARDS

Model	Memory Capacity (Bytes)	MPU	Supported CPUs	DMA Interface	Board Size	Function	Price
Adac Corporation 617 935-6668							
1604			Q-bus		HQ	Counts and stores input impulses from four separate sources.	
1616/MIC			Q-bus		HQ	Expands the interrupt capability of the LSI-11 systems.	
1616/OII			Q-bus		HQ	Isolates discrete inputs from Q-bus hosts.	
1616/OIO			Q-bus		HQ	Isolates discrete inputs from Q-bus hosts.	
1616CCI			Q-bus		HQ	Detects contact closure on any or all of 16 discrete input lines.	
1622DMA			Q-bus	Y	HQ	Allows external TTL devices to operate with Q-bus hosts.	
Adept Digital Systems, Inc. 408 435-9151							
SCSI Interface			UNIBUS	Y	H	Interfaces the UNIBUS host to a SCSI controller.	$4,000
Aeon Systems, Inc. 505 828-9120							
8482			Bibus	Y		Connects the Bibus to a front-end VME system.	$15,495
8500	N	N	Q/B	N		TTL/CMOS compatible daughterboard.	$2,495
8510			Bibus	Y		Multiplexes virtual connections to alternate backplane buses.	$9,995
8510			Bibus	Y		Multiplexes virtual connections to alternate backplane buses.	$9,995
8520			Q-bus	Y	Q	Multiplexes virtual connections to alternate backplane buses.	$7,495
Augat, Inc. 617 222-2202							
050-DECVI			Bibus		H	Prototype board used as a multiphase development tool.	
MLT-DECVI			Bibus		H	Prototype board used as a multiphase development tool.	
Avalon Computer Systems 818 247-2216							
AP/30M04	4M	Y	U/Q	Y	H/Q	Offloads demands from UNIBUS and Q-bus hosts.	$15,900
AP/30M08	8M	Y	U/Q	Y	H/Q	Offloads demands from UNIBUS and Q-bus hosts.	$19,300
AP/30M12	12M	Y	U/Q	Y	H/Q	Offloads demands from UNIBUS and Q-bus hosts.	$22,700
AP/30M16	16M	Y	U/Q	Y	H/Q	Offloads demands from UNIBUS and Q-bus hosts.	$26,100
AP/30M32	32M	Y	U/Q	Y	H/Q	Offloads demands from UNIBUS and Q-bus hosts.	$39,700
AP/30M64	64M	Y	U/Q	Y	H/Q	Offloads demands from UNIBUS and Q-bus hosts.	$66,900

SPECIAL FUNCTION BOARDS

Model	Memory Capacity (Bytes)	MPU	Supported CPUs	DMA Interface	Board Size	Function	Price
Camintonn Corporation 714 553-0247							
AST-220C			UNIBUS			Connects IBM PC/XT/ATs to the VAX with VT220 emulation.	$795
CM-MXV11-B			Q-bus		D	Multifunction board with dual serial ports.	
CPC-220			UNIBUS			Connects IBM PC/XT/ATs to the VAX with VT220 emulation.	$795
Digital Data Systems, Inc. 305-792-3290							
DDS-UFUM	1M				H		$3,000
HC70	2M		PDP 11				$9,000
PEP-70	2-4M		UNIBUS	Y			$17,000+
USI/HSR			UNIBUS			Allows maximum UNIBUS utilization and freedom.	$3,000
Digital Technology, Inc. 513 443-0412							
BIU-153BI	64K		VAXBI			Emulates MIL-STD-1553 terminals on a single bus interface.	
BIU-53Q			Q-bus			Emulates MIL-STD-1553 terminals on a single bus interface.	
BIU-55Q			Q-bus			Provides "logic-analyzer" functions.	
DSP Technology, Inc. 415 657-7555							
CC-DR11			Q/U/B	Y		Interfaces to external ports of DR11-W or DRV-11WA modules.	
GEN/COMP, Inc. 617 828-2008							
2042-01			U/Q	Y	H	Provides a DMA parallel transfer to user device.	$900
2042-02			UNIBUS	Y		Provides a DMA parallel transfer to user device.	$1,400
2142-01			U/Q	Y	Q	Provides DMA parallel transfer between the UNIBUS and Q-bus.	$800
2142-02			U/Q	Y	Q	Provides DMA parallel transfer between the UNIBUS and Q-bus.	$1,300
Heritage Communication Systems 602 780-1497							
EMMA	16K		U/Q			Allows programs to be written in native VT220/320 mode.	$199
Hybricon 508 772-5422							
024-050			Q-bus		Q	Four slot backplane with removable terminations.	$195
024-053			Q-bus		Q	Eight slot backplane with an 18-pin header.	$238
024-056			Q-bus		H	Nine slot backplane with power and ground I/O on barrier strip.	$438
024-061			Q-bus		H	Nine slot backplane with power and ground I/O on barrier strip.	$438
024-086-01			Q-bus		Q	Four slot backplane used as a barrier strip power and ground I/O.	$195
031-010-01			UNIBUS		H	Wire wrap board for high speed logic and analog applications.	$279
031-014-01			Q-bus		D	Extender card with two sided construction.	$116
031-014-02			Q-bus		Q	Extender card with two sided construction.	$198
031-014-03			UNIBUS		H	Extender card with two sided construction.	$310
031-020			Q-bus		Q	Wire wrap board for high speed logic and analog applications.	$459
031-032-03			UNIBUS		H	Extender card with multilayer construction.	$473
031-033						Wire wrap board for high speed logic and analog applications.	$840
031-043			UNIBUS		H	Wire wrap board for high speed logic and analog applications.	$630
031-055			Q-bus		Q	Wire wrap board for high speed logic and analog applications.	$200
031-063					D	Wire wrap board for high speed logic and analog applications.	$115
031-066			Q-bus		D	Wire wrap board for high speed logic and analog applications.	$595
031-078-02			Q-bus		D	Extender card with multilayer construction.	$450
031-078-03			UNIBUS		H	Extender card with multilayer construction.	$632
067-106			Q-bus		D	Twelve slot backplane with power and ground I/O on barrier strip.	
067-178			Q-bus		H	Nine slot backplane with power and ground I/O on barrier strip.	
067-178			Q-bus		H	Nine slot backplane with power and ground I/O on barrier strip.	
Intel Corporation 602 869-3805							
VVSAda 386-75			UNIBUS			Enables programmers to develop Ada applications.	
VVSAda 386-82			UNIBUS			Enables programmers to develop Ada applications.	
VVSAda 386-83			BIbus			Enables programmers to develop Ada applications.	
VVSAda 386-85			BIbus			Enables programmers to develop Ada applications.	
VVSAda 386-88			BIbus			Enables programmers to develop Ada applications.	

SPECIAL FUNCTION BOARDS

Model	Memory Capacity (Bytes)	MPU	Supported CPUs	DMA Interface	Board Size	Function	Price
Iverson, Inc. 415 459-5665							
IVAC 750			UNIBUS		H	Accelerator board that increases processor speed by 25%.	$9,950
K-Systems of Texas 915 598-9769							
AITG			Q-bus		D	Propagation delay-corrected IRIG-B time base generator.	$1,500
AITG-U			UNIBUS		Q	Propagation delay-corrected IRIG-B time base generator.	$1,500
KTL-100			Q-bus		D	Emulates a VT100 with advanced video option.	$600
TFL-100			Q-bus		D	Emulates a VT100 with advanced video option.	$675
VTTR-U			UNIBUS			Event time freeze register, IRIG-B reader, time match detector.	$1,500
Mitek Systems Corporation 214 490-4090							
M4011			UNIBUS	Y		Connects a VAX CPU to an IBM multiplexer channel.	$17,000+
MRI Computers 305 587-7464							
USI/HSR			UNIBUS			Allows maximum UNIBUS utilization and freedom.	
Nemonix, Inc. 800-435-8650							
NX0008-SCA	N	N	UNIBUS			Increases CPUs information processing up to 25%.	
Optivision, Inc. 916 756-4429							
Optibus-DR11			UNIBUS		Q	Fiber optic module that connects machines that support DR11-W.	$6,000
Peritek Corporation 415 531-6500							
DMA-Q	Y	N	Q-bus	Y	D	High performance board for general purpose applications.	$575
FDI-Q	Y	N	LSI-11	Y		Extracts the maximum performance from flexible diskettes.	
HEX-Q	N	N	LSI-11	Y	D	Creates a combined DMA and PIO data path among processors.	$4,455
Purvis Systems, Inc. 401 849-4750							
Q-bus/NTDS			U/Q	Y	Q	Emulates functions of the NTDS processor I/O controller.	$3,400
UNIBUS/NTDS			UNIBUS	Y	HQ	Links DEC CPUs and Navy Tactical Data System (NTDS) devices.	$5,400
Ranyon Corporation 714 895-5504							
68SUM			UNIBUS		H	Single board supercomputer for high speed computations.	$5,850
Rockwell International Corporation 714 762-1476							
IIOC		Y	U/Q	Y		Commuicates between Q-bus or UNIBUS and MIL-STD machines.	$9,500
IIOC		Y	Q-bus	Y		Communicates between Q-bus and MIL-STD machines.	$4,950
IIOC	256K	Y	Bibus	Y	H		$10,500
IIOC			UNIBUS	N	H	Enables the VAX to perform as a computer to NTDS peripherals.	$4,850
IIOC			UNIBUS	Y	H	Enables the VAX to perform as a computer to NTDS peripherals.	$6,525
IIOC			Q-bus	N		Enables the VAX to perform as a computer to NTDS peripherals.	$5,200
IIOC			Q-bus	Y		Enables the VAX to perform as a computer to NTDS peripherals.	$6,795
IIOC			Bibus	Y	H	Enables the VAX to perform as a computer to NTDS peripherals.	$6,795
Sky Computers, Inc. 508 454-6200							
SKY320-Q	64K	Y	Q-bus	Y	Q	Fixed point digital signal processor for data processing.	$2,900
StarSoft Technologies, Inc. 408 377-6949							
MTC			UNIBUS			Allows an IBM PC/AT/XT to emulate a VT220.	$495
Sunflex Company 415 883-1221							
188/530						Connects to a wide range of DTE devices to an SPX network.	
Systems Concepts, Inc. 415 984-1000							
IU-11			UNIBUS			Connects up to four strings of disk modules.	
IU-11			UNIBUS			Connects to one or more IBM-compatible peripheral control units.	
Talon Technology Corporation 214 680-9913							
Q/FAX			Q-bus		D	Connects hosts to any Group III facsimile worldwide.	$1,895
The Logical Company 503 942-3610							
BCQ-1000			Q-bus	Y			$1,295
BCU-1000			UNIBUS	Y			$1,295
DCQ-1000			Q-bus	Y		Emulates a DRV11-WQ with fiber optic output.	$1,295

Graphics Controllers

Advanced Technology Center

■ **TwinTerm**

Designed to enable personal computers to function as full-featured graphics terminals.

Camintonn Corporation

■ **AST-220**

$595

The AST-220 enables an IBM PC, XT, or AT compatible to emulate a VT220 terminal. It supports multitasking capabilities that allow two VMS sessions and one PC DOS session to run concurrently. It also features windowing and is equipped with an on-board 80186 microprocessor and 128KB RAM.

■ **AST-220C**

$795

The AST-220C enables an IBM PC, XT, or AT compatible emulate a VT220 terminal. It supports multitasking capabilities that allow two VMS sessions and one PC DOS session to run concurrently. It also features windowing and is equipped with an on-board 80186 microprocessor and 128KB RAM.

Digital Instruments Corporation

■ **QD512 RGB**

512x512dpi • $3,940

The QD512 RGB Color Imaging and Display board is supplied with extensive callable drivers in VMS or RT-11 allowing custom imaging packages to be assembled by the user quickly. Fast built-in hardware features include zoom, pan, DMA, multi-split screen, extensive I/O lookup tables, input data shifter, and eight maskable bit-planes. Available companion memory board QM256 allows roaming through 32MB images, fast overlays, and cyclic animation.

International Software Corporation

■ **ViewMate**

19" Monitor Supported • 1280x960dpi • $4,995

The ViewMate converts the IBM PC, AT, and XT computers into VT220 terminals.

LSI Logic Sciences, Inc.

■ **HSR-11B**

The HSR-11B is a high speed processor for vector to raster conversion.

■ **Turbograph-300**

300x300dpi

Turbograph-700

Matrox Electronic Systems

■ **QG-640**

19" Monitor Supported • 640x480dpi • $2,595

Features include 256 displayable colors from a palette of 262,144 and supports four monochrome displays.

Mega Vision

1024XM

$40,000+

The 1024XM is a true thousand line image acquisition, processing, and display system with a 44.7 MIPS pipeline processor.

Metheus Corporation

■ **1104**

1280x1024dpi • $1,595

■ **1124**

1024x768dpi • $2,195

■ **1128**

1024x768dpi • $2,995

The 11xx Series is available with TGRAF software as a standard feature that allows any PC to be used as a serial connected Tektronix 4107, 4115, or 4125 compatible terminal. Emulates IBM CGA, EGA, or VGA display modes.

■ **Omega 3600**

1280x1024dpi • $17,000+

Designed to meet the needs of image processing, simulation, C3I and CAD/CAM system builders. Expandable from 8 to 32 bit planes. Features a pixel fill rate of 160 million pixels per second and a vector draw rate of six million pixels per second.

■ **Omega 3700**

2048x2048dpi • $40,000+

Same as the 3600. Also features 2Kx2K resolution with main-frame quality local intelligence. Expandable from 4 to 16 bit planes and features a pixel fill rate of 384 million pixels per second.

■ **Omega 500**

1280x1024dpi • $13,000+

Features pan and zoom and a 30 million pixel per second fill rate and displays 256 colors from a palette of 16.7 million.

Peritek Corporation

■ **VCG-Q**

19" Monitor Supported • 512x512dpi • $1,700

Features block or line-by-line addressing, a 4096 color palette, and is available with graphics subroutine packages. Also supports 13" monitors.

■ **VCH-Q**

19" Monitor Supported • 512x512dpi • $2,280

The VCH-Q displays 256 out of 16 million colors; dual height board. Also available with subroutine packages. Also supports 13" monitors.

■ **VCK-Q/U**

19" Monitor Supported • 1024x1024dpi • $3,495+

The VCH-Q displays 256 out of 16.7 million colors. Features alpha and single-bit graphics overlays and an intelligent graphics controller chip. Options include DMA and SCSI support and a 68010 CPU. Also supports 15" monitors.

■ **VCK24-Q/U**

19" Monitor Supported • 1024x1024dpi • $9,995+

Designed for high resolution true color applications. Features include 1024x1024x24 graphics plus 3-bit graphics and alpha overlays, ACRTC, hardware zoom and pan, as well as dynamic switching between 8-bit and 24 operation. Also supports 15" monitors.

■ **VCL-Q**

19" Monitor Supported • 1280x1024dpi

Features 2048x1024 addressable 8-bit graphics memory, a 4-bit graphics overlay, a 2-bit cursor, ACRTC, an optional 68030 CPU, DMA, SCSI suppport, four serial ports, and hardware zoom and pan. Also supports 15" monitors.

■ **VCM-Q**

19" Monitor Supported • 1280x1024dpi

Features 2048x1024 address bits, 8-bit graphics and memory, a 4-bit graphics overlay, a 2-bit cursor, an advanced graphics controller chip and hardware zoom and pan. Also supports 15" monitors.

■ **VCW-Q**

19" Monitor Supported • 640x512dpi • $1,700+

Options include one or two display channels, graphics cursors, 4- or 8-bit graphics and color alpha overlay, and an intelligent graphics controller chip. Also supports 13" monitors.

■ **VCX-Q/U**

19" Monitor Supported • 512x512dpi • $5,215+

Designed for true color applications and displays any of 16 million colors at any moment. Includes a color alphanumeric overlay and is supported by graphics subroutine software. Also supports 13" monitors.

■ **VRA-Q**

15" Monitor Supported • $615

VRA-U

15" Monitor Supported • $670

The VRA-Q and -U are high performance alphanumeric display devices for information handling on a CRT monitor. Allow direct, low overhead random access to all display positions on the screen.

■ **VRG-Q**

15" Monitor Supported • 512x512dpi • $1,150

Features block or line-by-line addressing. The graphics and alphanumeric displays can be blanked independently without changing the images stored in the memory. The graphics display image may be complemented by setting a single bit.

■ **VRH-Q**

15" Monitor Supported • 1024x1024dpi • $1,950

This board simultaneously supports 1024x1024 graphics and 128 character x 64 line alpha. Alpha includes RAM-programmable character sers and multipage display.

■ **VRS-Q**

15" Monitor Supported • 512x512dpi • $1,650

Features block or line-by-line addressing. The graphics and alphanumeric displays may be blanked independently without changing the images stored in the memory. The graphics display image may be complemented by setting a single bit.

Versatec

■ **260 Series**

1280x1024dpi • $5,495

Video hard copy controller that converts video analog data displayed on a monitor to Versatec parallel data and then drives Versatec electrostatic and thermal plotters.

Virtual Imaging

■ **FCD419**

1280x1024dpi

The VHR display operates in full color (RGB) mode.

MCD419

19" Monitor Supported • 1280x1024dpi

PCD419

1280x1024dpi

The FCD, MCD, and PCD Series is designed for Virtual Imaging's VIE2000 VAX workstations. It provides a Very High Resolution (VHR) option to the VIE2000 as well as an additional 640x512 pixel graphics overlay that may be positioned over the entire image area.

Host Adapters

Able Computer

■ **EH128**

10Mbps Transfer Rate • $12,750

This Ethernet/LAT Terminal Server provides 128 ports of access to any Ethernet supporting LAT. Emulates DECserver 500 Terminal Servers.

■ **FP105**

Q-bus Supported • RS422 Supported • $2,500

This Q-bus Host Server emulates up to 16 DEC DHV-11 interfaces providing 128 ports of access to any Q-bus host with a single quad-size module.

■ **FP110**

UNIBUS Supported • RS422 Supported • $3,000

This UNIBUS Host Server emulates up to eight DEC DHV-11 interfaces, providing 128 ports of access to any UNIBUS host with a single hex-sized module.

■ **VB512**

Bibus Supported • 1Mbps Transfer Rate • $3,000

This VAXBI Host Server permits connection of any EASYway network to any of the DEC BIbus machines. Supports up to 512 virtual circuits.

Bit 3 Computer Corporation

■ **405**

Q-bus Supported • Bytes • $2,495

IBM PC/AT to Q-bus adaptor. Allows the PC/AT to become a bus master processor on the Q-bus. Dual port RAM to 1MB. Cables to 25 feet; LLDRVR to 300 feet.

■ **431**

Q-bus Supported • Bytes • 1Mbps Transfer Rate • $2,695

The 431 connects an IEEE 796 Multibus system to the Q-bus. Memory-mapped interface. Optional dual-port RAM to 1MB.

■ **432**

Q-bus Supported • Bytes • 1Mbps Transfer Rate • $2,695

The 432 connects an IEEE 1014 VMEbus system to the Q-bus. Memory-mapped interface. Optional dual port RAM to 1MB.

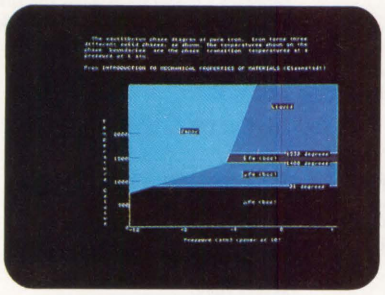
■ **433**

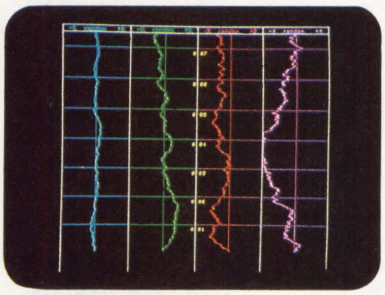
Q-bus Supported • Bytes • 1Mbps Transfer Rate • $3,895

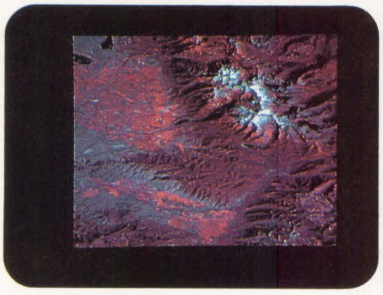
The 433 connects two Q-bus systems. Master/Master or Master/Slave. Cables to 50 feet; LLDRVR to 300 feet. Dual port RAM to 1MB.

NOW WITH X-WINDOWS

Peritek does it with color!



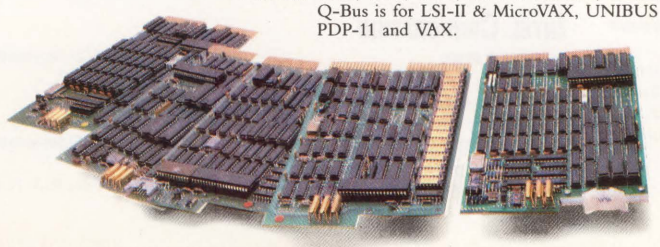






	MODEL	BUS & SIZE	FEATURES AND OPTIONS	PIXEL GRAPHICS PRIMARY	PIXEL GRAPHICS OVERLAY (S)	ALPHA-NUMERICS
COLOR/GRAY SCALE	VCL	Q QUAD	68030,68882 32-BIT RAM, ACRTC, DMA 2 DUART, PAN ZOOM, SCSI	1024 x 1024 x 8	1024 x 1024 x 4 HARDWARE CURSOR	
	VCM	Q DUAL	ACRTC, PAN ZOOM, DUART	1024 x 1024 x 8	1024 x 1024 x 4 HARDWARE CURSOR	
	VCW	Q DUAL	ACRTC, PAN, 2 CHANNELS	640 x 480 x 8	HARDWARE CURSORS	50 x 80 x 6
	VCT (avail. 1/90)	Q QUAD	34020, PAN ZOOM, SCSI, 2 DUART	1024 x 1024 x 24	1024 x 1024 x 8 HARDWARE CURSOR	
	VCX	Q & U QUAD	EXTERNAL SYNC INPUT	512 x 512 x 24		50 x 80 x 6
MONOCHROME	VRH	Q DUAL		1024 x 1024		64 x 128
	VRS	Q DUAL		512 x 512		50 x 80
	VRA	Q DUAL				24 x 80

NOTES: VCK, VRC, VCH, etc. also available, contact factory. Q-Bus is for LSI-II & MicroVAX, UNIBUS is for PDP-11 and VAX.



Graphics and alphanumerics for LSI, PDP, VAX and MicroVAX.

Peritek has been offering the widest range of Q-bus and Unibus display controllers available anywhere for over 10 years. Hardware and software for most applications. Color and monochrome. Low to high resolution. Software support for RT/TSX, RSX, VMS, and ULTRIX, and bit-level subroutines which interface directly to Fortran and C. Image processing software is also available.

Peritek's most powerful board, the VCL-Q combines an advanced CRT controller and a very fast 68030-based computer on one quad-height card.

You get:

- 1024 x 1024 x 8 color graphics
- 1024 x 1024 x 4 graphics overlays
- CPU with 1MB to 10MB 32-bit private memory, optional 68882 FPU
- hardware graphics cursor
- hardware pan and zoom
- 4 serial RS-232 I/O ports
- 2 Channel DMA controller
- High speed, 8-bit SCSI port

The VCL-Q prices range from $4,870 to $6,795. A complete package with software and monitor starts at $7,790.

For your special requirements, Peritek can supply custom configurations of our standard products. We're ready to quote on custom software and hardware design projects, too.

Call or write for free catalog.

Peritek Corporation
5550 Redwood Rd.,
Oakland, California 94619.
Phone (415) 531-6500.
In the east, (516) 798-1919.

Peritek

RT, RSX, VMS, ULTRIX, LSI, PDP, VAX and MicroVAX are trademarks of Digital Equipment Corporation. TSX is a trademark of S & H Associates.

■ 445
Q-bus Supported • Bytes • $2,695
Allows the PS/2 a bus master on the Q-bus. Cables to 25 feet; LLDRVR to 300 feet. Dual port RAM to 1MB.

CMD Technology, Inc.

■ CDU-700/M
UNIBUS Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $1,650
Supports up to seven devices and features on-board and utility bootstrapping and on-board formatting and bad block replacement.

■ CDU-700/OM
UNIBUS Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $2,250
The CDU-700/OM supports both optical and magnetic disks and is capable of supporting up to seven devices. Features on-board and utility bootstrapping and on-board formatting and bad block replacement.

■ CDU-700/T
UNIBUS Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $1,750
Supports up to seven devices and features on-board and utility bootstrapping and on-board formatting and bad block replacement. Compatible with TMSCP.

■ CDU-700/TM
UNIBUS Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $2,250
Supports tape, 8mm, and magnetic disks and up to seven devices and features on-board and utility bootstrapping and on-board formatting and bad block replacement.

■ CDU-712/M
UNIBUS Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $1,895
Supports differential/single-ended SCSI with cable length up to 80 feet. Supports up to seven devices and features on-board and utility bootstrapping and on-board formatting and bad block replacement.

■ CDU-712/OM
UNIBUS Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $2,495
Supports differential/single-ended SCSI with cable length up to 80 feet. Supports both optical and magnetic disks and supports up to seven devices. Features on-board and utility bootstrappiing and on-board formatting and bad block replacement.

■ CDU-712/T
UNIBUS Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $1,995
Supports differential/single-ended SCSI with cable length up to 80 feet. Supports tape, 8mm and up to seven devices. Features on-board and utility bootstrapping and on-board formatting and bad block replacement.

■ CDU-712/TM
UNIBUS Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $2,495
Supports differential/single-ended SCSI with cable length up to 80 feet. Supports tape, 8mm, and magnetic disks and up to seven devices. Features on-board and utility bootstrappiing and on-board formatting and bad block replacement.

■ CQD-200/M
Q-bus Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $1,250
Supports up to seven devices and features on-board and utility bootstrapping and on-board formatting and bad block replacement.

■ CQD-200/OM
Q-bus Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $1,750
Supports both optical and magnetic disks and up to seven devices. Features on-board and utility bootstrapping and on-board formatting and bad block replacement.

■ CQD-200/T
Q-bus Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $1,350
Supports up to seven devices and features on-board and utility bootstrapping and on-board formatting and bad block replacement.

■ CQD-200/TM
Q-bus Supported • 16KBytes • SCSI Supported • 2Mbps Transfer Rate • $1,750
Supports tape, VCR, and magnetic disks and up to seven devices. Features on-board and utility bootstrapping and on-board formatting and bad block replacement.

■ CQD-220/M
Q-bus Supported • SCSI Supported • 4.8Mbps Transfer Rate • $1,650
Supports up to seven devices and features on-board and utility bootstrapping and on-board formatting and bad block replacement.

■ CQD-220/TM
Q-bus Supported • SCSI Supported • 4.8Mbps Transfer Rate • $2,150
Supports tapes, VCR, and magnetic disks and up to seven devices. Features on-board and utility bootstrapping and on-board formatting and bad block replacement.

Emulex Corporation

■ UC04M/MO
Q-bus Supported • 20KBytes • SCSI Supported • $1,800+
Supports a variety of 5.25" Winchester disk drives and .25" tape drives. Supports magnetic and optical device support.

UC07
Q-bus Supported • 64KBytes • SCSI Supported • 2Mbps Transfer Rate • $1,600
Intelligent host adapter compatible with DSA and supports full implementation on SCSI for standard 22-bit Q-bus systems. Firmware diagnostics supports multiple drive operations. Operates with helical scan tape cartridges allowing several disks to be backed up to one tape so that archival backup can be done unattended. Common Command Set fully supported. Devices supported include magnetic and optical disk drives, tape drives and helical scan tape cartridges.

■ UC07-III
Q-bus Supported • 64KBytes • SCSI Supported • 2Mbps Transfer Rate • $1,600
Same as the C07, but designed for MicroVAX 3xxx series using the BA213 enclosure. The "daughterboard" handle arrangement includes a transition panel for cable adaption.

■ UC08
Q-bus Supported • 64KBytes • SCSI Supported • 2Mbps Transfer Rate • $2,050
Same as the UC07. However, the UC08 is actually two individual UC07s on one board. Each of the two independent controller interfaces on the UC08 is switch-selectable between MSCP and TMSCP. As a result, one UC08 can support one MSCP and one TMSCP, two MSCP, or two TMSCP implementations.

■ UC08-III
Q-bus Supported • 64KBytes • SCSI Supported • 2Mbps Transfer Rate • $2,050
Same as the UC08, but designed for MicroVAX 3xxx series using the BA213 enclosure. The 'daughterboard' handle arrangement includes a transition panel for cable adaption.

■ UC14M/MO
UNIBUS Supported • 20KBytes • $2,200+
Supports a variety of 5.25" Winchester disk drives and .25" tape drives. Supports magnetic and optical drive support.

Ikon Corporation

■ 10077
Multibus I Supported • DR11-W Supported • $1,200
Used as a general purpose peripheral DMA interface for the Multibus and as an interprocessor link to DEC or other CPUs via the DEC DR11-W.

■ 10083
BERSAbus Supported • DR11-W Supported • $2,150
Used as a general purpose peripheral DMA interface for the VERSAbus and as an interprocessor link to DEC or other CPUs via the DEC DR11-W.

■ 10084
VMEbus Supported • DR11-W Supported • $1,250
Used as a general purpose peripheral DMA interface for the VMEbus and as an interprocessor link to DEC or other CPUs via the DEC DR11-W.

■ 10087
Multibus Supported • DR11-W Supported • $1,450
Used as a general purpose peripheral DMA interface for the Multibus and as an interprocessor link to DEC or other CPUs via the DEC DR11-W.

■ 10089
VMEbus Supported • DR11-W Supported • $1,500
Used as a general purpose peripheral DMA interface for the VMEbus and as an interprocessor link to DEC or other CPUs via the DEC DR11-W.

■ 10094
PC/ATbus Supported • DR11-W Supported • $750
Used as a general purpose peripheral DMA interface for the PC/AT and as an interprocessor link to DEC or other CPUs via the DEC DR11-W.

Intel Corporation

■ FASTPATH 9750D
$80,000+
The FASTPATH 9750D features both hardware and software in providing a DEC to IBM link. The software is developed by Flexlink International which enables a linkage between IBM 30xx and 43xx class mainframes to DEC VAX systems.

MDB Systems, Inc.

MDB/MLSI-DW11
UNIBUS/Q-bus Supported • $1,225
Allows UNIBUS and Q-bus controllers and peripherals to operate in Q-bus and UNIBUS hosts, respectively. Address MAP switch allows DMA transfers from UNIBUS devices to MAP anywhere in the Q-bus 4MB range.

■ MDB/MLSI-DWQ11
UNIBUS/Q-bus Supported • $1,200
Allows UNIBUS and Q-bus controllers and peripherals to operate in Q-bus and UNIBUS hosts, respectively. FCC cable kit available.

Memory Sciences Corporation

■ FASTOR
UNIBUS/Q-bus/Bibus Supported • 1MBytes • 4.8Mbps Transfer Rate
FASTOR may be multiported to same or unlike computers.

Qualogy

■ QLC-1100
UNIBUS Supported • SCSI Supported • $2,395
Optical adapter that features high capacity optical storage for backup and archival storage applications as well as TMSCP emulation.

Sigma Information Systems

■ SDC-HA11
Q-bus Supported • SASI Supported • .8Mbps Transfer Rate • $354
Supports up to eight SASI bus devices and plugs directly into any contiguous Q-bus slot. There must be no vacant slots between this board and the CPU module, otherwise the DMA and Interrupt Grand signals will not be routed to the adapter.

Simpact Associates, Inc.

■ CPI 12000
Q-bus Supported
Provides a comprehensive set of turnkey solutions for MicroVAX-to-IBM SNA interconnectivity. Includes a front-end processor, two software modules, a distribution panel kit, initialization and test programs as well as user documentation.

■ VCI 8000
Q-bus Supported
Communication interface board used to connect VME-based computers to DEC computers using DDCMP communication links.

TD Systems, Inc.

■ QDO
Q-bus Supported • SCSI Supported • 1.5Mbps Transfer Rate • $1,395

■ QDT
Q-bus Supported • SCSI Supported • 1.5Mbps Transfer Rate • $1,995

■ QTO
Q-bus Supported • SCSI Supported • 1.5Mbps Transfer Rate • $1,395

■ TDL-12
Q-bus Supported • SCSI Supported • .8Mbps Transfer Rate • $695
The TDL-12 provides RLV-12 emulation.

■ UDO
UNIBUS Supported • SCSI Supported • 1.5Mbps Transfer Rate • $1,595

■ UDT
UNIBUS Supported • SCSI Supported • 1.5Mbps Transfer Rate • $2,195

■ UHA-11
UNIBUS Supported • SCSI Supported • .6Mbps Transfer Rate • $895
The UHA-11 provides RL-11 emulation.

■ UTO
UNIBUS Supported • SCSI Supported • 1.5Mbps Transfer Rate • $1,595

U. S. Design Corporation

■ HA-1108
Q-bus Supported • SCSI Supported • $1,250
Provides the link between the CPU and the optical disk drive. It features MSCP command buffering, holding 20 command packets in one buffer, seek optimization, self-sizing and variable partitioning, and expanded error recovery procedures. One 12" optical disk stores up to 2GB of information.

■ HA-1109
Q-bus Supported • SCSI Supported • $1,750
Provides the link between the CPU and the optical disk drive. It features MSCP command buffering, holding 20 command packets in one buffer, seek optimization, self-sizing and variable partitioning, and expanded error recovery procedures. Designed for the DEC Micro VAX 3000.

■ HA-1128
Q-bus Supported • $1,595
Designed for easy integration and operation with the complete U. S. Design Q-Stor family of products.

■ HA-1158
UNIBUS Supported • SCSI Supported • $1,500
Provides the link between the CPU and the optical disk drive. It features MSCP command buffering, holding 20 command packets in one buffer, seek optimization, self-sizing and variable partioning, and expanded error recovery procedures. One 12" optical disk stores up to 2GB of information.

■ HA-1178
UNIBUS Supported • $1,850
Designed for easy integration and operation with the complete U. S. Design Q-Stor family of products.

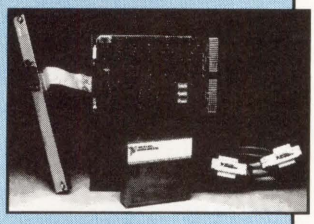
IEEE-488 Controllers

Design Analysis Associates

■ ICA
Bibus Supported
The ICA is equipped with a VAXBI card, internal cables, software, and a connector plate for the IEEE-488, RS232 and STDbus interfaces.

■ GPIB-MVII
250KBytes • Q-bus Supported • $1,995
This GPIB interface kit is designed for the MicroVAX II system. It includes the GPIB11 V-2 interface board, GPIB11 DEC software, internal cables, and complete documentation.

National Instruments



■ GPIB-MV3000
250KBytes • Q-bus Supported • $2,095+
The GPIB-MV3000 was developed specifically to help engineers, scientists, and technicians simplify their GPIB instrument control applications using a MicroVAX 3000 Series computer. The kit is shipped configured for immediate installation. It includes the high-speed GPIB11 V-2 DMA interface board, VMS multiboard software handler in source code, a mounting bracket for EMI shielding in the chassis, an interconnecting cable, a dual filler panel for proper positioning, and complete user documentation. The kit offers GPIB talker/listener/controller capabilities with DMA data transfers up to 250Kbps and implements over 25 GPIB-related functions for complete bus management activities.

■ GPIB11 V-1
50KBytes • Q-bus Supported • $795+
This device permits IEEE-488 compatible engineering, scientific or medical instruments to be controlled from the host. Applications include data acquisition, computer-aided design, graphics, and interprocessor communications systems that require high rates of data transfer.

■ GPIB11 V-2
250KBytes • Q-bus Supported • $1,495+
This device permits IEEE-488 compatible engineering, scientific or medical instruments to be controlled from the host. Applications include data acquisition, computer-aided design, graphics, and interprocessor communications systems that require high rates of data transfer.

■ GPIB11-1
500KBytes • UNIBUS Supported • $1,395+
Designed for PDP-11 systems; features source code which includes VMS multiboard handler software. This device permits IEEE-488 compatible engineering, scientific or medical instruments to be controlled from the host. Applications include data acquisition, computer-aided design, graphics, and interprocessor communications systems that require high rates of data transfer.

■ GPIB11-2
500KBytes • UNIBUS Supported • $2,195
Designed for VAX systems; features source code which includes VMS multiboard handler software. This device permits IEEE-488 compatible engineering, scientific or medical instruments to be controlled from the host. Applications include data acquisition, computer-aided design, graphics, and interprocessor communications systems that require high rates of data transfer.

Peripheral Interface Controllers

U. S. Design Corporation

■ 4200-05
4 Supported Drives(s) • SCSI Supported • 120ms Access Time
Features an asynchronous SCSI and one ESDI port.

■ 4200-20
4 Supported Drives(s) • SCSI Supported • 120ms Access Time

■ 4220-05
4 Supported Drives(s) • SCSI Supported • 120ms Access Time
The 4220-05 features four ESDI ports.

■ 4220-20
4 Supported Drives(s) • SCSI Supported • 120ms Access Time

■ 4240-05
4 Supported Drives(s) • SCSI Supported • 120ms Access Time
The 4240-05 features a synchronous SCSI and four EDSI ports.

■ 4240-20
4 Supported Drives(s) • SCSI Supported • 120ms Access Time
The 4200 Series employs cache memory and artificial intelligence to reduce access times while boosting transfer rates.

Webster Computer Corporation

■ WQESD
4 Supported Drives(s) • ESDI Supported • 4ms Access Time • Q-bus Supported
The WQESD is a 1 MB cached MSCP ESDI Winchester disk controller that supports Standard, Modified, Enhanced, and Extended SMD. Features WOMBAT on-board interactive formatting and diagnostics and programmable look ahead.

■ WQSMD
2 Supported Drives(s) • SMD Supported • 4ms Access Time • Q-bus Supported
The WQSMD is a 1 MB cached MSCP SMD Winchester disk controller that supports Standard, Modified, Enhanced, and Extended SMD. Features WOMBAT on-board interactive formatting and diagnostics and programmable look ahead.

■ WUESD
4 Supported Drives(s) • ESDI Supported • 4ms Access Time • UNIBUS Supported • $2,800
The WUESD is a 1 MB cached MSCP ESDI Winchester disk controller that supports Standard, Modified, Enhanced, and Extended SMD. Features WOMBAT on-board interactive formatting and diagnostics and programmable look ahead.

■ WUSMD
4 Supported Drives(s) • SMD Supported • 4ms Access Time • UNIBUS Supported • $3,020
The WUSMD is a 1 MB cached MSCP SMD Winchester disk controller that supports Standard, Modified, Enhanced, and Extended SMD. Features WOMBAT on-board interactive formatting and diagnostics and programmable look ahead.

Printer Controllers

Able Computer

■ PS100
1 Printer(s) Supported • DataProducts Interfaces Supported • Printronix Printers Controlled • $1,500
Equipped with a multidrop feature that allows addition or removal of servers without network disruption. Compatible with all Easyway host and terminal servers. Also controls DataProduct printers.

■ VMZ/LPII
1 Printer(s) Supported • Parallel/DataProducts Interfaces Supported • $1,800
The VMZ/LPII provides a DMF printer port with DMA output from the system.

Advanced Technologies International

■ DW-2
Serial/Parallel Interfaces Supported • $4,990+
Features a page description language (LaserDRIVE) that enables users to generate graphics, bar codes, and merging text and graphics on one page. Also features master fonts which may be used to create over 1000 custom fonts.

■ DW-3
Serial/Parallel Interfaces Supported • $3,990+
Designed to perform a full range of applications from basic data processing to advanced plotter graphics. Drives ATI's 0880, 1570, and the 2670 laser printers.

■ LC-6000
Serial/DataProducts Interfaces Supported • LC-6026 Printers Controlled • $10,500

Advanced Vision Research

■ TIGer-EMS
Hewlett-Packard/Ricoh Printers Controlled • $1,795
Bundled support memory management software included to integrate text, images and graphics. Serves as a scanner buffer, image buffer, and a printer buffer. Supports PDLI. Also supports Canon printers.

Computer Products, Inc.

■ GT361
DataProducts/Parallel Interfaces Supported • DataProducts Printers Controlled
Equipped with user selectable features including parity select and upper-to-lower and lower-to-upper character conversion.

■ GT361T
DataProducts/Parallel Interfaces Supported • $395
Interfaces the Tektronix 4693D Color Image Printer to the LSI-11 and MicroVAX systems. Supports four-level interrupts, 22-bit addressing with selectable vector and base address.

Digital Associates Corporation

■ 4110
1 Printer(s) Supported • Serial Interfaces Supported • DataPrinter Printers Controlled

■ 4111
1 Printer(s) Supported • Serial Interfaces Supported • DataProducts Printers Controlled

■ 4132-11
1 Printer(s) Supported • Serial Interfaces Supported

Dyna Five Corporation

■ D5-LP100
Parallel/DataProducts Interfaces Supported
Features internal self test, switch selectable device addresses, and switch selectable interrupt address vectors.

GEN/COMP, Inc.

■ 2024
1 Printer(s) Supported • DataProducts Interfaces Supported • Hewlett-Packard and DataProduct Printers Controlled • $525
Used with the DEC LP11, LA11 and LS11 line printers as well as the LXY11 and LV11 printer/plotters.

MDB Systems, Inc.

■ MDB-LP11
1 Printer(s) Supported • DataProducts Interfaces Supported • DataPrinter Printers Controlled • $750
Supplied with a 25 foot cable. Features MDB's exclusive PrinTest and Loop back self test capabilities, and LEDs for visual indication of data being transferred.

■ MDB-LP11-LLO
1 Printer(s) Supported • DataProducts Interfaces Supported • DataProducts Printers Controlled • $950
Supplied with a 15 foot cable. Features MDB's exclusive PrinTest and Loop back self test capabilities. Differential drivers and receivers allow placement of printer up to 3000 feet from computer.

■ MLSI-F-LP11
1 Printer(s) Supported • DataProducts Interfaces Supported • DataProducts Printers Controlled • $510
Features cable cabinet kit for FCC compliant computers, MDB's exclusive PrinTest and Loop back self test capabilities, and an optional "A" size panel.

■ MLSI-LP11
1 Printer(s) Supported • DataProducts Interfaces Supported • DataProducts Printers Controlled • $475
Supplied with a 25 foot cable. Features MDB's exclusive PrinTest and Loop back self test capabilities, and LEDs for visual indication of data being transferred.

QMS, Inc.

■ JetScript
1 Printer(s) Supported • Serial/Parallel Interfaces Supported • $2,495
Upgrades any HP LaserJet Series II or any Canon LBP-8II printer to feature PostScript functionality. Includes 35 resident typefaces and requires 8-bit or greater PCbus for a single board controller.

■ PSJet+
1 Printer(s) Supported • Serial/Parallel Interfaces Supported • $2,250

■ PSJet+M
1 Printer(s) Supported • Serial/Parallel Interfaces Supported • $3,495
The PSJet+ and the PSJet+M upgrade any Canon CX-based printers to feature PostScript functionality. This series includes 35 resident typefaces, supports RS232/422, Centronics Parallel, AppleTalk, and emulates Diablo 630, LaserJet+, and HP-GL.

Talaris Systems Inc.

■ PCS
Serial/Parallel Interfaces Supported • Xerox Printers Controlled
Single-board laser printer controller with dualprocessing architecture. The standard C programming environment facilitates programming changes, should they be required by new hardware. Also supports Ricoh printers.

Tartan Technical, Inc.

■ Sprint It
Serial/Parallel Interfaces Supported
Supports the PDP11/73 and the MicroVAX I, II, and III. Feautes DMA, optimized bus handling, and on-board buffering.

The Logical Company

■ PCU-1000
1 Printer(s) Supported • DataProducts Printers Controlled • $995
High speed parallel line printer controller emulating the printer functions of a DMF32 providing on-board character formatting contained on a single quad UNIBUS module.

Wespercorp

■ DPL-11
1 Printer(s) Supported • DataProducts/Parallel Interfaces Supported • $690
The DPL-11 operates with DEC LA-180 printers and all printers using Centronics or DataProducts standards.

■ DPL-1100
1 Printer(s) Supported • DataProducts/Parallel Interfaces Supported • DataProducts Printers Controlled • $430
Supports printers that operate using Centronics or DataProducts standards.

■ DPL-1132
2 Printer(s) Supported • DataProducts/Parallel Interfaces Supported • $1,500
DMA controller that increases system throughput by allowing the printer to access memory rather than the CPU. Supports two printers that operate using Centronics or DataProducts standards, and is equivalent to the DEC DMF32 line printer controller.

Xyplex, Inc.

■ NPC
6 Printer(s) Supported • Serial/Parallel Interfaces Supported • DEC LP32 Printers Controlled • $2,575
The NPC (Network Printer Controller) supports printers that are linked to multiple-VAX print queues on Xyplex Ethernet, Thin-Wire Ethernet or Linear Coaxial cabling architectures. Also supports DataProducts and Centronics interfaces.

Special Function Boards

Adac Corporation

1604
Q-bus Supported • Counts and stores input impulses from four separate sources.
Counts input impulses from four separate sources and stores the results into 16-bit storage registers. Ideally suited for rotation/pulse event and similar measurements.

■ 1616/MIC
Q-bus Supported • Expands the interrupt capability of the LSI-11 systems.
Expands the interrupt capability of the LSI-11 systems and accepts inputs from up to 16 external devices and passes them through a priority encoder before requesting an interrupt on the bus.

■ 1616/OII
Q-bus Supported • Isolates discrete inputs from Q-bus hosts.

■ 1616/OIO
Q-bus Supported • Isolates discrete inputs from Q-bus hosts.
The 1616/OII and OIO provide a means of isolating discrete outputs from the computer bus.

■ 1616CCI
Q-bus Supported • Detects contact closure on any or all of 16 discrete input lines.
Detects contact closure on any or all of 16 discrete input lines; stores the status of individual lines in a register and is interfaced directly to the bus of the LSI-11 system.

■ 1622DMA
Q-bus Supported • Allows external TTL devices operate with Q-bus hosts.
Controller allows external TTL devices to operate with Q-bus hosts in DMA mode. Also allows any Adac analog-to-digital converter to operate in DMA mode.

Adept Digital Systems, Inc.

■ SCSI Interface
UNIBUS Supported • Interfaces the UNIBUS host to a SCSI controller • $4,000
Includes both hardware and software to interface the UNIBUS host to a SCSI controller. The device driver software for VMS, RSX, or RT-11 operating systems allows the application software to create SCSI command description blocks to communicate with the SCSI controller.

Aeon Systems, Inc.

■ 8482
Bibus Supported • Connects the Bibus to a front-end VME system • $15,495
VIVA (8482) uses Aeon's 8510 VAXBI controller and Aeon's 8530 to create a high speed (up to 5.5Mbps) VAXBI to VME connection. Intended for real time distributed applications. VME/VAXBI separation is 50 meters using coax cables, up to 2km with fiber optic transceivers.

■ 8500
NBytes • Q/B Supported • TTL/CMOS compatible daughterboard • $2,495
Daughterboard that connects Aeon's High Speed Link to a simple TTL compatible specification. Suitable for connecting custom instrumentation to VAXBI or Q-bus processors.

■ 8510
Bibus Supported • Multiplexes virtual connections to alternate backplane buses • $9,995
Single slot VAXBI controller to Aeon's High Speed Link (10Mbps). On-board processor multiplexes virtual connections to alternate backplane buses (VME, Multibus II, Q-bus, or BI). DMA engine transfers data at full VAXBI data rates (up to 6Mbps).

■ 8510
Bibus Supported • Multiplexes virtual connections to alternate backplane buses • $9,995
Single slot VAXBI controller to Aeon's High Speed Link (10Mbps serial). On-board processor multiplexes virtual connections to alternate backplane buses (VME, Multibus II, Q-bus or BIbus). DMA engine tranfers data at full VAXBI data rates (up to 6Mbps).

■ 8520
Q-bus Supported • Multiplexes virtual connections to alternate backplane buses • $7,495
Q-bus controller to Aeon's High Speed Link (10Mbps) serial. On-board processor multiplexes virtual connections on the link to alternate backplane buses (VME, Multibus II, BI, or Q-bus). DMA engine takes advantage of Q-bus block and pipeline transfers to allow maximum data transfer at 3.1Mbps.

Augat, Inc.

■ 050-DECVI
Bibus Supported • Prototype board used as a multiphase development tool.
This device is a Unilayer wire-wrapped prototype board that is used as a multiphase development tool for module designs.

■ MLT-DECVI
Bibus Supported • Prototype board used as a multiphase development tool.
This device is a Multilayer wire-wrapped prototype board that is used as a multiphase development tool for module designs. Both the 050-DECVI and the MLT-DECVI use sophisticated wiring algorithms that promote the use of high speed, high performance devices.

Avalon Computer Systems

■ AP/30M04
4MBytes • UNIBUS/Q-bus Supported • Offloads demands from UNIBUS and Q-bus hosts • $15,900

■ AP/30M08
8MBytes • UNIBUS/Q-bus Supported • Offloads demands from UNIBUS and Q-bus hosts • $19,300

■ AP/30M12
12MBytes • UNIBUS/Q-bus Supported • Offloads demands from UNIBUS and Q-bus hosts • $22,700

■ AP/30M16
16MBytes • UNIBUS/Q-bus Supported • Offloads demands from UNIBUS and Q-bus hosts • $26,100

■ AP/30M32
32MBytes • UNIBUS/Q-bus Supported • Offloads demands from UNIBUS and Q-bus hosts • $39,700

■ AP/30M64
64MBytes • UNIBUS/Q-bus Supported • Offloads demands from UNIBUS and Q-bus hosts • $66,900
The VACCELERATOR AP/30 Series combines VMS with the high-performance of the RISC into a single board, single slot attached processor for application programs running on VAX and MicroVAX systems. Runs computer bound programs at speeds of 15 to 20 times faster than a MicroVAX II, five to seven times faster than a MicroVAX III, and twice as fast as a VAX 8810.

Camintonn Corporation

■ **AST-220C**

UNIBUS Supported • Connects IBM PC/XT/ATs to the VAX with VT220 emulation • $795

The AST-220C offers VT220 terminal emulation and connects IBM PC/XT/AT computers to VAX systems using two VT220 RS232 ports which may be connected either to two different ports on the host or to two different host systems.

■ **CM-MXV11-B**

Q-bus Supported • Multifunction board with dual serial ports.

Multifunction board with dual serial ports, 8-bit switch or user command register, supports 512KBx8-bit EPROM, and equipped with 128KB EPROM containing bootstrap and system diagnostic routines.

■ **CPC-220**

UNIBUS Supported • Connects IBM PC/XT/ATs to the VAX with VT220 emulation • $795

The CPC-220 offers VT220 terminal emulation and connects IBM PC/XT/AT computers to VAX systems using two VT220 RS232 ports which may be connected either to two different ports on the host or to two different host systems.

Digital Data Systems, Inc.

■ **DDS-UFUM**

1MByte • $3,000

The DDS-UFUM will double system speed and triple peripheral capacity when used with the USI/HSR.

■ **HC70**

2MBytes • PDP 11 Supported • $9,000

When used in conjunction with the PEP-70, the HC70 will duplicate the performance improvement experienced with the PEP-70.

■ **PEP-70**

2-4MBytes • UNIBUS Supported • $17,000+

Increases system data rate capability and improves user response time under heavy CPU and/or UNIBUS DMA activity.

■ **USI/HSR**

UNIBUS Supported • Allows maximum UNIBUS utilization and freedom • $3,000

The USI/HSR is a (1) UNIBUS Segment Isolator that electronically breaks the bus into smaller segments and a (2) High Speed Repeator that enables the UNIBUS to run as fast as the CPU will allow.

Digital Technology, Inc.

■ **BIU-153BI**

64KBytes • VAXBI Supported • Emulates MIL-STD-1553 terminals on a single bus interface.

■ **BIU-53Q**

Q-bus Supported • Emulates MIL-STD-1553 terminals on a single bus interface.

The above BIU Series emulates two MIL-STD-1553 terminal types on a single bus interface. Features 1553 message buffer queues, a continously accessible register control bank, comprehensive interrupt control, and comprehensive error injection.

■ **BIU-55Q**

Q-bus Supported • Provides "logic-analyzer" functions.

This board, in conjunction with the Q-bus host, provides "logic-analyzer" functions for use in design, debug, and functional testing of MIL-STD-1553A/B.

DSP Technology, Inc.

■ **CC-DR11**

UNIBUS/Q-bus/BIbus Supported • Interfaces to external ports of DR11-W or DRV-11WA modules.

The CC-DR11 is a CAMAC crate controller that interfaces to the external port of a DR11-W or DRV-11WA parallel DMA I/O module, providing a DMA access to the CAMAC dataway from UNIBUS or BI-bus processors.

GEN/COMP, Inc.

■ **2042-01**

UNIBUS/Q-bus Supported • Provides a DMA parallel transfer to user device • $900

Provides a DMA parallel transfer to user device or interprocessor link between UNIBUS and Q-bus CPUs. Emulates the DEC DR11-W, DR11-B, and DA11-B.

■ **2042-02**

UNIBUS Supported • Provides a DMA parallel transfer to user device • $1,400

Same as the 2042-01. However, this model features long-line opto-isolators.

■ **2142-01**

UNIBUS/Q-bus Supported • Provides DMA parallel transfer between the UNIBUS and Q-bus • $800

The 2142-01 provides a DMA parallel transfer to user device or interprocessor link between PDP UNIBUS and MicroVAX Q-bus CPUs. It emulates the DEC DR11-W, DR11-B and DA11-B.

■ **2142-02**

UNIBUS/Q-bus Supported • Provides DMA parallel transfer between the UNIBUS and Q-bus • $1,300

Same as the 2142-01. However, this model features long-line opto-isolators.

Heritage Communication Systems

■ **EMMA**

16KBytes • UNIBUS/Q-bus Supported • Allows programs to be written in native VT220/320 mode • $199

Emulates VT220 and 320 terminals and is comprised of both hardware and software that enables end users and software developers to write customized computer programs for DEC mainframes in native VT220/320 mode. Programmers may utilize the extended attributes generic to VT220/320 terminals and perform those functions on IBM PCs, PS/2s or compatibles.

Hybricon

■ **024-050**

Q-bus Supported • Four slot backplane with removable terminations • $195

This model is a four slot backplane with removable terminations.

■ **024-053**

Q-bus Supported • Eight slot backplane with an 18-pin header • $238

This model is an eight slot backplane with an 18 pin header for power and ground I/O. Removable terminations.

■ **024-056**

Q-bus Supported • Nine slot backplane with power and ground I/O on barrier strip • $438

This model is a nine slot backplane with power and ground I/O on the barrier strip. No provision for terminations.

■ **024-061**

Q-bus Supported • Nine slot backplane with power and ground I/O on barrier strip • $438

This model is a nine slot backplane with power and ground I/O on the barrier strip. No provision for terminations.

■ **024-086-01**

Q-bus Supported • Four slot backplane used as a barrier strip power and ground I/O • $195

This model is a four slot backplane and is used as a barrier strip for power and ground I/O. Removable terminations.

■ **031-010-01**

UNIBUS Supported • Wire wrap board for high speed logic and analog applications • $279

Wire wrappable board with 75 columns, 168 16-pin and 192 14-pin DIP capacities. Features a continuous ground plane and frequency to 55MHz, low noise and crosstalk, and is suitable for high speed logic and analog applications.

■ **031-014-01**

Q-bus Supported • Extender card with 2 sided construction • $116

■ **031-014-02**

Q-bus Supported • Extender card with 2 sided construction • $198

■ **031-014-03**

UNIBUS Supported • Extender card with two sided construction • $310

The 031-014-01, -02, and -03 are extender cards with two sided construction and dimensions of 11.8x9.875 inches. Feature gold plated test points on double sided extenders, staggered test points to eliminate test probe cluttering, full clearance of adjacent cards, and controlled impedance.

■ **031-020**

Q-bus Supported • Wire wrap board for high speed logic and analog applications • $459

Wire wrappable board with 50 columns, 112 16-pin and 128 14-pin DIP capacities. Feature a continuous ground plane and frequency to 55MHz, low noise and crosstalk, and is suitable for high speed logic and analog applications.

■ **031-032-03**

UNIBUS Supported • Extender card with multilayer construction • $473

Extender card with multilayer construction. Features gold plated test points on double sided extenders, staggered test points to eliminate test probe cluttering, full clearance of adjacent cards, and controlled impedance.

■ **031-033**

Wire wrap board for high speed logic and analog applications • $840

Wire wrappable board with 75 columns, 264 16-pin and 288 14-pin DIP capacities. Feature a continuous ground plane and frequency to 55MHz, low noise and crosstalk, and is suitable for high speed logic and analog applications.

■ **031-043**

UNIBUS Supported • Wire wrap board for high speed logic and analog applications • $630

Wire wrappable board with 75 columns, 168 16-pin and 192 14-pin DIP capacities. Features a continuous ground plane and frequency to 55MHz, low noise and crosstalk, and is suitable for high speed logic and analog applications.

■ **031-055**

Q-bus Supported • Wire wrap board for high speed logic and analog applications • $200

Wire wrappable board with 50 columns, 112 16-pin and 128 14-pin DIP capacities. Features a continuous ground plane and frequency to 55MHz, low noise and crosstalk, and is suitable for high speed logic and analog applications.

■ **031-063**

Wire wrap board for high speed logic and analog applications • $115

■ **031-066**

Q-bus Supported • Wire wrap board for high speed logic and analog applications • $595

The 031-063 and -066 are wire wrappable boards with 25 columns, 52 16-pin and 56 14-pin DIP capacities. Feature a continuous ground plane and frequency to 55MHz, low noise and crosstalk, and is suitable for high speed logic and analog applications.

■ **031-078-02**

Q-bus Supported • Extender card with multilayer construction • $450

Extender card with multilayer construction and dimensions of 15.30x12.75 inches. Features gold plated test points on double sided extenders, staggered test points to eliminate test probe cluttering, full clearance of adjacent cards, and controlled impedance.

■ **031-078-03**

UNIBUS Supported • Extender card with multilayer construction • $632

Extender card with multilayer construction and dimensions of 15.30x12.75 inches. Features gold plated test points on double sided extenders, staggered test points to eliminate test probe cluttering, full clearance of adjacent cards, and controlled impedance.

■ **067-106**

Q-bus Supported • Twelve slot backplane with power and ground I/O on barrier strip.

This model is a 12 slot backplane with power and ground I/O on barrier strip. Provision for terminations.

■ **067-178**

Q-bus Supported • Nine slot backplane with power and ground I/O on barrier strip.

■ **067-178**

Q-bus Supported • Nine slot backplane with power and ground I/O on barrier strip.

The 067-178 Series features nine slot backplanes with power and ground I/O on the barrier strip. No provisions for terminations. Auxilliary voltage on the barrier strip.

Intel Corporation

■ **VVSAda 386-75**

UNIBUS Supported • Enables programmers to develop Ada applications.

■ **VVSAda 386-82**

UNIBUS Supported • Enables programmers to develop Ada applications.

■ **VVSAda 386-83**

BIbus Supported • Enables programmers to develop Ada applications.

■ **VVSAda 386-85**

BIbus Supported • Enables programmers to develop Ada applications.

■ **VVSAda 386-88**

BIbus Supported • Enables programmers to develop Ada applications.

The 386 Series is a cross-compilation pack-

age that consists of both software and firmware. Its function enables programmers to develop Ada applications, from initial unit testing with the VMS-targeted compiler to compiling and linking using the 80386-targeted cross compiler. Downloading to the 80386 target and debugging may also be accomplished from a VAX terminal. Please consult factory for detailed information on the software tools included in this package.

Iverson, Inc.

■ **IVAC 750**

UNIBUS Supported • Accelerator board that increases processor speed by 25% • $9,950

The IVAC 750 is an accelerator board that accelerates the processor at an average of 25%. It is transparent to software.

K-Systems of Texas

■ **AITG**

Q-bus Supported • Propagation delay-corrected IRIG-B time base generator • $1,500

■ **AITG-U**

UNIBUS Supported • Propagation delay-corrected IRIG-B time base generator • $1,500

The AITG and AITG-U models incorporate the three functions of a propagation delay-corrected IRIG-B synchronizable time base generator, an event time freeze register. Applications include radar data collection, data time annotation, "bit-creep" elimination, and time-correlated distributed data collection.

■ **KTL-100**

Q-bus Supported • Emulates a VT100 with advanced video option • $600

Emulates a VT100 with advanced video option and operates on all LSI-11 systems at up to 19.2Kbps, supporting up to 32 terminals.

■ **TFL-100**

Q-bus Supported • Emulates a VT100 with advanced video option • $675

Emulates a VT100 with advanced video option and operates on all LSI-11 systems at up to 19.2Kbps. Features 3 auxilliary port modes for screen dump, communicating with a second keyboard, or DLV-11 serial interface emulation mode.

■ **VTTR-U**

UNIBUS Supported • Event time freeze register, IRIG-B reader, time match detector • $1,500

Incorporates the functions of an event time freeze register, an IRIG-B reader, and a time match detector. Applications include VCR time annotation reading, data acquisition time tagging, time correlated distributed data collection, tape reading (searching), and digitizer control.

Mitek Systems Corporation

■ **M4011**

UNIBUS Supported • Connects a VAX CPU to an IBM multiplexer channel • $17,000+

Mitek Systems Corporation designs, manufactures, and distributes connectivity solutions for linking IBM SNA products to TCP/IP vendor systems. Product features include bidirectional logon and file transfer and IBM terminal emulation.

MRI Computers

■ **USI/HSR**

UNIBUS Supported • Allows maximum UNIBUS utilization and freedom.

The USI/HSR is a (1) UNIBUS Segment Isolator that electronically breaks the bus into smaller segments and a (2) High Speed Repeator that enables the UNIBUS to run as fast as the CPU will allow. This device was designed specifically to allow maximum UNIBUS utilization and freedom in system configurations.

Nemonix, Inc.

■ **NX0008-SCA**

UNIBUS Supported • Increases CPUs information processing up to 25%.

The NX0008-SCA is a Synchronized Clock Accelerator that extends the life and performance of the CPU by increasing its information processing up to 15%.

Optivision, Inc.

■ **Optibus-DR11**

UNIBUS Supported • Fiber optic module that connects machines that support DR11-W • $6,000

The Optibus-DR11 is a high speed fiber optic module that connects any two machines that support a DR11-W interface. It is capable of transferring data over distances up to 2km at rates up to 1.5Mbps.

Peritek Corporation

■ **DMA-Q**

Q-bus Supported • High performance board for general purpose applications • $575

High performance board designed for general purpose applications; it handles all the hardware protocol including bus handshaking, bus timeout, interrupt request and vectoring, DMA request/grant and data transfer. Also supports the LSI-11.

■ **FDI-Q**

LSI-11 Supported • Extracts the maximum performance from flexible diskettes.

Supports 3.5", 5.25", and 8" single/double sided, single/double density disks and DEC's RX01, RX33, and RX50.

■ **HEX-Q**

LSI-11 Supported • Creates a combined DMA and PIO data path among processors • $4,455

Multiprocessor linking system which creates a combined DMA and PIO data path between a goup of processors. Allows the host to select and perform bidirectional transfer via DMA with one of six satellite processing units.

Purvis Systems, Inc.

■ **Q-bus/NTDS**

UNIBUS/Q-bus Supported • Emulates functions of the NTDS processor I/O controller • $3,400

■ **UNIBUS/NTDS**

UNIBUS Supported • Links DEC CPUs and Navy Tactical Data System (NTDS) devices • $5,400

The Q-bus/NTDS and UNIBUS/NTDS are MIL-STD-1397 NTDS interfaces for 16- and 32-bit, full duplex, parallel, data transfers. Differential line receivers are standard for Type B (NTDS-FAST) and Type C (ANEW). I/O drivers, users manuals and test and installation software are included.

Ranyon Corporation

■ **68SUM**

UNIBUS Supported • Single board supercomputer for high speed computations • $5,850

The 68SUM is a single board 68020-based supercomputer that uses a 69991 floating point coprocessor for high speed computational performance. It is packaged with 2MB RAM and 256KB of host memory may be shared via windows.

Rockwell International Corporation

■ **IIOC**

UNIBUS/Q-bus Supported • Commuicates between Q-bus or UNIBUS and MIL-STD machines • $9,500

The IIOC provides communication between a Q-bus or UNIBUS system and MIL-STD 1397 (Type E) low level serial military computers and peripherals.

■ **IIOC**

Q-bus Supported • Communicates between Q-bus and MIL-STD machines • $4,950

Provides communication between the Q-bus, BA200 and 3000 series computers and peripherals, and MIL-STD 1397 (Type A, B, or C) military computers. Operates with 16- or 32-bit words.

■ **IIOC**

256KBytes • BIbus Supported • $10,500

The IIOC includes a 10MHz 68000 microprocessor, a 68450-DMA controller, 256KB of zero wait state SRAM (with 2KB of SRAM dual-ported to the host), and 64KB EPROM. Conforms to MIL-STD 1397 (Type A, B, C, and H).

■ **IIOC**

UNIBUS Supported • Enables the VAX to perform as a computer to NTDS peripherals • $4,850

■ **IIOC**

UNIBUS Supported • Enables the VAX to perform as a computer to NTDS peripherals • $6,525

■ **IIOC**

Q-bus Supported • Enables the VAX to perform as a computer to NTDS peripherals • $5,200

■ **IIOC**

Q-bus Supported • Enables the VAX to perform as a computer to NTDS peripherals • $6,795

In addition to performing all Naval Tactical Data Systems (NTDS) transfers, the above boards enable the VAX CPU to perform as a computer or intercomputer channel. (Type A, B, or C).

■ **IIOC**

BIbus Supported • Enables the VAX to perform as a computer to NTDS peripherals • $6,795

Designed for the BIbus and includes a 10MHz 68000 microprocessor, a 68450-DMA controller, 258KB of zero wait state SRAM (with 2KB of SRAM dual-ported to the host), and 64KB EPROM. Users communicate with the IIOC by loading a chain program into the dual ported memory and interrupting the board. The IIOC then executes the chain without further host intervention, thereby reducing host overhead and NTDS response time over typical "CSR" based designs.

Sky Computers, Inc.

■ **SKY320-Q**

64KBytes • Q-bus Supported • Fixed point digital signal processor for data processing • $2,900

Fixed point digital signal processor designed for high speed data processing. Equipped with software; applications include speech and image processing, vibration analysis, realtime control, and digital filtering.

StarSoft Technologies, Inc.

■ **MTC**

UNIBUS Supported • Allows an IBM PC/AT/XT to emulate a VT220 • $495

Enables an IBM PC/AT/XT to emulate a VT220 terminal. MTC software available.

Sunflex Company

■ **188/530**

Connects to a wide range of DTE devices to an SPX network.

Designed to work in conjunction with N. E. T. Comdesign's SPX series of I/O processor boards to connect to a wide range of DTE devices to an SPX network. It meets the MIL-STD -188 -114A Type I electrical specifications. It connects up to 32 channels in an SPX/30 network and up to 750 channels in SPX/50 clustered networks.

Systems Concepts, Inc.

■ **IU-11**

UNIBUS Supported • Connects up to four strings of disk modules.

When configured with a one or two FA channel, the IU-11 connects up to four strings of disk modules, with up to eight spindles in each string. Sustains a data transfer rate of two million bytes per second.

■ **IU-11**

UNIBUS Supported • Connects to one or more IBM-compatible peripheral control units.

When configured with a one or two SA channel, the IU-11 connects to one or more IBM-compatible peripheral control units, and is able to sustain a data transfer rate of two million bytes per second.

Talon Technology Corporation

■ **Q/FAX**

Q-bus Supported • Connects hosts to any Group III facsimile worldwide • $1,895

Connects hosts to any Group III facsimile worldwide over standard telephone lines and transmits and receives text or graphics images directly to any FAX machine for output.

The Logical Company

■ **BCQ-1000**

Q-bus Supported • $1,295

Software transparent controller used to repeat, extend, or convert the Q-bus up to distances of 1km over a single fiber optic cable.

■ **BCU-1000**

UNIBUS Supported • $1,295

A software transparent controller used to repeat, extend, or convert the UNIBUS up to distances of 1km over a single fiber optic cable.

■ **DCQ-1000**

Q-bus Supported • Emulates a DRV11-WQ with fiber optic output • $1,295

A single quad width Q-bus controller that emulates a DRV11-WQ with fiber optic output for high speed transfers at distances up to 1km.

SPECIALIZED PRODUCTS

Bar Code Readers

BarComp, Inc.

■ PDB-10
$1,195
This product requires an RS232 interface.

Control Module, Inc.

■ Bar Code Readers
Each bar code product that is manufactured by Control Module consists of a bar code decoder with keyboard emulation circuitry for the VT100, 220, 240, 330, and 340.

Identicon

■ 3501
$1,695
The 3501 requires an RS232 interface.

Intelligent Controls Inc.

■ 8000
Available in communication outputs of RS232/422/485 and binary. Features onboard decoding capabilities and the ability to monitor two input relays and to toggle one output relay.

Kimtron Corporation

■ KBR-100
Compatible with all Kimtron KT-series terminals. It wedges between the keyboard and the adapter and features a selectable carriage return. Does not require an RS232 port or additional power. Supports CODEABAR, UPC-A/E, and EAN-8/13 code symbologies.

Percon, Inc.

■ E-Z Reader
$635
Requires an RS232 interface. Bar code information is entered into the system as if the keyboard were providing the data, making it totally transparent to any program. Equipped with a wand holder that cushions and protects bar code wands, digitizers or light pens.

TPS Electronics

■ PC-350
$595
Incorporates a microprocssor and enters the bar code information into the system as if the keyboard were providing the data, making it totally transparent to any program. RS232 port not required.

■ PC-3500
$745
Combines a bar code reader and a magnetic strip reader in one unit. Information is entered into the system as if the keyboard were providing the input, making it totally transparent to any program.

Vertex Industries

■ Bar Code Readers
Manufactures bar code data collection systems.

Videx, Inc.

■ TimeWand II
$698
TimeWand II is a portable data collector that collects bar code information without being connected to a host. Housed in a rugged, cast metal case that features a 32 character liquid crystal display.

Magnetic Strip Readers

TPS Electronics

■ PC-3500
$525
Combines a bar code reader and a magnetic strip reader in one unit. Information is entered into the system as if the keyboard were providing the input, making it totally transparent to any program.

■ PC-550
$525
Incorporates a microprocessor and is easily connected between the keyboard and the CPU. Enters the magnetically encoded information as if the keyboard were providing the input, making it transparent to any program. RS232 port not required.

Monitoring and Test Devices

Allied Telesis, Inc.

■ AT-921-E
Ethernet Cable Fault Locator • $995
Features a negative pulse digital time domain reflectometer with scope output capabilities.

AT&T Paradyne Corporation

■ 6510
Network Management
Provides noninterfering, automatic and constant monitoring of local and remote hardware and VF line impairments. Features modem and DDS II diagnostics, automatic polling, analog line measurements, firmware, database files, terminal and full reporting capabilities.

Beckman Industrial

■ TMT-1
Transmission Medium Tester • $3,200
Hand-held instrument used to verify the suitability of LAN media to conduct Ethernet-based data communication. Performs tests automatically or manually.

Cabletron Systems, Inc.

■ LAN-MD
Network Component Tester
The LAN-MD tests all major components of Ethernet or IEEE 802.3 networks. This device complements the TDR 5000 by isolating network faults outside the coaxial cables.

■ Network Design

■ TDR 5000
Network Component Tester
The TDR 5000 is a portable LAN tester that uses negative pulse technology to test for faults on network coaxial cable.

Canoga-Perkins

■ 1401
Time Domain Reflectometer • $2,295
Locates faults in telephone lines including shorts, crosses, opens, splits, etc. Features LCD screen, menu drive soft keys, dual trace capability, and crosstalk mode.

Case/Datatel

■ DCP2083
Data Link Analyzer
The DCP2083 tests communications facilities as well as asynchronous and synchronous modems and multiplexers with speeds up to 6Mbps.

■ DCP2183
Data Link Analyzer
The DCP2183 is a 19" rackmount device that features the same capabilities as the DCP2083.

■ DCP2283
Data Link Analyzer
The DCP2283 is a portable device that features the same capabilities as the DCP2083.

Datacom Technologies, Inc.

■ DataTool 5000
Data Communications Tester • $879
Features a special pulse level voltmeter that indicates whether a dynamic data stream is approaching a marginal value.

■ EXBERT T1
T1 Monitor and Test Set • $2,195
Generates and receives stress test patterns. Features D4 and ESF framing, in-service monitoring, out-of-service testing, CSU and network loop codes, and a printer port for hard copy test results.

■ Four State Series
RS232 Interface Tester
This series monitors up to 25 lines, providing instant line status with separate red and green LEDs.

■ Tri State Series
Interface Tester
This series monitors up to 12 lines, providing instant line status with separate red and green LEDs. Tests RS232, RS422, and V.35 interfaces.

■ Two State Series
Interface Tester
This series monitors up to 15 lines, providing instant line status with separate red and green LEDs. Tests RS232, RS449, and Centronics interfaces.

Digital Accessories, Inc.

■ RTP-2000
Data Communications • $550+
This device tests the continuity and integrity of cables up to 2000 feet, including wiring faults, reversals, openings and shorts.

Electrodata, Inc.

■ AG 1
Audio generator tester • $220
This device provides calibrated low distortion sine waves for audio testing and loss measurements on voice-grade communication channels.

■ ATS 1
Audio generator tester • $695
This device is a self-contained pocket-size audio generator and level meter.

■ ATS 2
Audio generator tester • $695
This device is a self-contained pocket-size audio generator and level meter and also measures Impulse Noise, Peak-to-Average Ratio (P/AR), and Signal-to-Noise (S/N) ratio.

■ CLE 404
Communications Line Expander
This device allows up to four modems or terminals to share a single four-wire leased drop line.

■ CLS 2
Communications Line Switch
This device allows two RS232 interfaces to be switched to a common connector for modems or terminals, and employs status indicators to show which line is selected, self-wiping contacts for reliability, and female screw locks to hold cables securely.

■ CTS 3
Data Communications Tester • $1,995
The CTS 3 executes a user-generated simulation program, simultaneously monitors transmit and receive data, as well as performs bit and block error-rate tests, distortion tests, and delay measurements.

■ ICT 2
RS232 Cable Tester • $275
The ICT 2 identifies shorts and open wire configurations.

■ ITS 1
RS232 Tester

■ ITS 2
RS232 Tester • $99

■ ITS 3
Tests RS232 Interfaces • $225
The ITS Series monitors and tests RS232 interfaces.

■ ITS 4
V.35 Interface Tester • $495
The ITS 4 monitors and identifies sources of trouble between a modem and terminal or CPU.

■ ITS 5
RS232 Tester • $195
The ITS 5 monitors and tests RS232 interfaces and is equipped with a pulse trap and voltage source.

■ ME 2
Modem Eliminator/Drive
This device permits direct connection of terminals and CPU's without modems.

■ ME 3
Modem Eliminator/Converter
This device permits direct connection of terminals and CPUs without modems.

■ MTS 1
Modem Tester • $375
This device tests asynchronous and syn-

chronous modems, data communication links, and is equipped with alkaline batteries, wire jumpers, and a technical manual.

■ MTS 1R
Modem Tester
This device tests asynchronous and synchronous modems, data communication links and is equipped with nickle-cadmium batteries, wire jumpers, technical manual, and a battery eliminator/charger.

■ MTS 2
Modem/Interface Tester • $595
The MTS 2 tests asynchronous modems from 300bps to 9600bps, externally timed synchronous modems from 600bps to 19.2Kbps, and internally timed synchrounous modems up to 76.8Kbps.

■ TM 1
T Carrier Monitor • $795
This device monitors in- and out-of-service T1 equipment, circuits, and transmitters.

■ TTS 2
T Carrier Tester • $2,995
This device performs in-service monitoring and out-of-service testing on T1 equipment, circuits and span repeaters.

■ VFM 1 VF
Tests audio signals • $215
This device measures and monitors audio signal levels on voice-grade data communication dedicated or dial channels.

EXPERDATA

■ S100
StarLAN Installation Tester • $1,195
Checks the ability of an existing twisted-pair network to handle a 1Mbps StarLAN, checks the StarLAN hub before installation, completes validation of the StarLAN network from a wall-plate connector, and performs network maintenance and troubleshooting.

■ VigiLAN
CSMA-CD Network Management • $5,200
LAN performance monitoring and diagnostic probe which may be controlled, locally or remotely via an RS232 from a nondedicated PC based central station.

GANDALF DATA, INC.

■ TTS400C
Data Transmission Tester • $925
The TTS400C combines a data generator and receiver/error detector in one unit, ideally suited for both bench or portable use. Used to install or troubleshoot modems, multiplexers, and other data communication equipment.

INTERNATIONAL DATA SCIENCES, INC.

■ 5100
Data Communications Tester • $1,795+
A hand-held unit designed for field service.

■ 5200
Data Communications Tester • $3,895+
The 5100 and 5200 perform bias distortion, and trap and monitor tests, in addition to point-to-point or multidrop polling, and analog testing.

■ 5300
Protocol Analyzer • $1,995+
The 5300 performs the same tests as the 5200. Equipped with the Megacapture feature which increases data storage capacities up to 16MB. Also performs unattended monitoring with no editing of traffic on the circuit being diagnosed.

■ 71 Pocket T1 Monitor
Datacom Test Equipment • $395
A hand-held unit that allows the user to monitor T1 data on any T1 or ISDN Network.

■ 72/91 Bert and Analog Tester
Datacom Test Equipment • $1,095
The IDS Model 72/91 is a bit error rate test set and analog test set all in one small, portable, battery-operated unit. Bert and error free seconds test up to 72Kbps and analog tests on voice lines can be performed.

■ 76A Bit Error Rate Tester
Datacom Test Equipment • $1,195
The IDS Model 76A is an all-purpose BERT for testing T1, DDS, ISDN and all asynchronous and synchronous networks from 50bps to 10,000,000 bps.

■ Blue Box II
Modem/Terminal Tester • $199+
The Blue Box II, Model 62 is designed to access and monitor all 25 conductors of the EIA RS232 and CCITT V.24 interfaces between data terminal and data communications equipment.

INTERNATIONAL DATA SCIENCES, INC.

■ IDS Blue Box 100
Datacom Test Equipment • $249
The IDS Blue Box 100 is a hand-held, battery-powered, 100-LED breakout box and cable tester. Red and green LEDs, isolation switches and piggy-back jumpers make this product perfect for field services.

■ IDS Model 92 Pocket Fax Tester
Datacom Test Equipment • $495
The IDS Fax Tester is the first pocket size Fax Tester ever produced. It is intended to be used by field service, dealers, and end users for installation and maintenance of Group I, II, and III facsimile machines.

■ IDS TIMS 110
Datacom Test Equipment • $2,995
A battery powered, portable, analog test set to test networks from 20Hz to 110KHz. Ideal for testing voice freguency lines, dial-up lines, program and wide-band circuits. P/AR, Jitter, S/N, Noise, etc.

■ Model 72/62 Pocket Bert
Datacom Test Equipment • $550
A small lightweight, battery-powered EIA-RS-232-C bit error rate test set with a full breakout box. Test patterns include five pseudo-random and Fox.

■ Red Box II
Bit Error Rate Tester • $795+
The Red Box II, Model 72/62 is a hand-held error rate testing device capable of testing data rates up to 38.4Kbps (asynchronous) and 72Kbps (synchronous) and is fully equipped with LEDs to monitor the status of EIA terminal interface signals.

■ Series 6000 Short Haul Modems
Limited Distance Modem • Approximately $300 Per Unit
A series of inexpensive limited distance modems, both synchronous and asynchronous, from 50bps to 19.2Kbps over distances up to 11 miles.

■ Series 8500 Data Switches
Network Management • Approximately $200 Per Module
A family of rackmounted, plug-in switching modules for switching, patching, and A-B back-up of data communications networks. Available in rackmount or desktop versions.

■ Series 8900 Switching System
Network Management Systems • Approximately $450 Per Module
A modular, plug-in, rackmount switching system for patching, A-B back-up switching, and monitoring of data communications networks. Both manual and PC computer remote switching available.

■ Series 9000 Switching and Patching
Network Management Systems • Approximately $450 Per Module
A comprehensive series of plug-in, rackmount modules for switching, patching, monitoring. Provides channel access switching for the digital and analog side of data communications modems and networks. Both computer and manual control available.

■ Sherlock EP Data Line Monitor
Datacom Test Equipment • $1,995
Converts the Epson Equity LT laptop computer into a powerful wide band data line monitor and protocol analyzer with plug-in interfaces such as RS-232, V.35, RS-449, DDS, MIL/188 and the new EIA 530.

■ Sherlock GP
LAN/WAN Monitor • $14,500
Monitors the activity of up to 1024 Ethernet or IEEE 802.3 stations. Contains a time domain reflectometer to locate opens, shorts, or transceiver faults on the LAN itself.

■ Sherlock L/W Model 5835
Datacom Test Equipment • $18,000
New IDS Sherlock LAN/WAN combines a LAN analyzer, both Ethernet and Token Ring, and a WAN analyzer into a high-speed test set.

■ Sherlock LT
Datacom Test Equipment • $3,995
All-in-one WAN data line monitor and protocol analyzer with full laptop PC compatibility, and testing asynchronous, synchronous, SNA, SDLC and X.25 protocols up to 72Kbps.

■ Token-Ring Back-up Switch
Datacom Test Equipment • Approximately $400 Per Module
The IDS new Token-Ring switch provides FEP back-up and isolation of faulty terminals. This PC computer-controlled switch disables faulty terminals to protect Token Ring operation.

ISA CONSULTANTS

ISA CONSULTANTS

■ RTM
Response Time Monitor • $695
By measuring response time as seen by users, RTM provides a unique and meaningful performance statistic to system and project managers. Unlike software-based performance measurement tools, RTM is a hardware device that examines characters communicated between a user terminal and CPU. Performance statistics are collected and maximum, minimum, and average transaction times are displayed on request. Complex transaction definitions are supported, including those used in All-In-One and OLTP (ACMS, DECintact) based environments.

JOHN FLUKE MANUFACTURING COMPANY, INC.

■ 1752A
Data Acquisition System • $8,000+
Powerful microcomputer based system for measurement and control applications. Data acquisition functions are integrated into the same chassis as the computer to minimize desktop or rack space. Simplifies programming and increases system performance.

■ 2289A-Helios I
Computer Front End • $2,300+
Rugged and highly accurate measurement and control system. Conditioning over two dozen signal types, Helios I provides confidence in the accuracy and repeatability of measurements from a variety of sensors.

■ 2400B
Intelligent Computer Front End • $5,000+
Accurate microprocessor based analog and digital data acquisition system. Serves as an interface between a computer and both the measurement and control of a physical process.

■ 70 Series
Analog/Digital Multimeter • $79-145

■ 80 Series
Handheld Digital Multimeters • $189+
A three member family of high performance meters with 11 functions and 40 ranges for a wide variety of electronic and industrial applications. Offers an impressive range of capabilities including frequency, duty cycle, and capacitance measurement and provides durable construction and unique safety features.

■ 8060A
$359
Performs fast audible/visual continuity tests.

■ 8840
Digital Multimeter Tester • $795-995

■ 9010A
Micro-System Tester • $3,295-5,190
Performs preprogrammed kernel test routines and simple peripheral troubleshooting. Please note that the quoted list price does not include the cost of interface pods.

■ 9100
Digital Test System • $9-21,500
Tests microprocessor-based digital circuitry from the microprocessor outward. It performs automated functional and guided fault isolation tests.

■ Fluke 45
Dual Display Multimeter • $595
A feature-rich, five digit 100,000 count DMW with a unique multifunction dual display, allowing measurement of two parameters from a single test connection. Offers high performance and versatility for manufacturing test, depot, and field service, and research and development. A standard RS232 interface makes the Fluke 45 ideal for PC instrument applications.

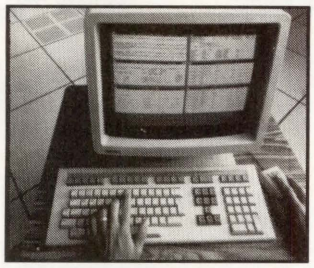
K&C Technologies, Inc.

■ **DS-100**

Portable Datacom Tester • $795

The DS-100 has the ability to simulate either DTE or DCE functions and features a built-in breakout box and auto-configuration.

Maintech



■ **Master Console**

Maintech's Master Console, a state-of-the-art console management utility, is able to monitor and control up to 16 processors from a single location. Utilizing a dynamic windowing system, Master Console links the communication interface from each monitored processor to a separate window on the workstation screen. An enhanced secure remote access feature allows authorized operations personnel to execute any function available at a processor's console or the resident Master Console procesor.

Network General Corporation

■ **The Sniffer**

LAN Protocol Analyzes • $12,500+

A family of self-contained portable protocol analyzers supporting Ethernet, Token-Ring, PC LAN and others, that monitor network traffic and capture images of all or of selected frames (packets) in a working buffer, ready for immediate analysis and display. Captured frame images may also be stored to hard disk as trace files for subsequent analysis.

Nu Data, Inc.

■ **R502A**

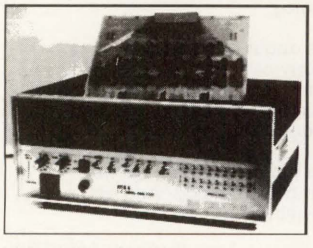
Matrix Line Monitor

Remotely controlled data monitoring device that enables up to 32 EIA-232 VAX interface circuits to be monitored at any of eight remote ports.

Real-Time Devices

■ **IOTA-II**

Real-Time DEVICES



I/O Transaction • $8,750

Bus transaction monitoring device supports both Q-bus and UNIBUS. Captures 2K transactions with extensive filtering and triggering capabilities. Derived information includes timing for each phase of the transaction and elapsed time with 100ns resolution, data and address values, transaction type, and error conditions. All information is accessible from the portable display unit or the target computer. Also detects timing problem areas in real time. Useful for hardware and software development, integration, and maintenance.

Siecor Corporation

■ **Fiber Optic Testers**

Test Equipment

A family of fiber optic test equipment including attenuation test equipment, handheld optical testers, power meters, and light sources.

■ **PETT**

LAN Tester • $3,500

The Portable Ethernet Transceiver Tester (PETT) is an Ethernet LAN installation tester and troubleshooting tool for use with coax, twisted pair, and fiber optic media and transmission equipment.

Staff Computer Technology

■ **THE KEY**

Controls Remote Access • $150+

THE KEY prevents unauthorized computer system access by remote terminals or computers. May also be used to prevent software or data piracy.

Team Systems, Inc.

■ **ASTRO VG-819**

Programmable Video Generator • $12,950

The new ASTRO VG-819 is fully programmable. Features a dot clock of 240MHz and horizontal scan rates to 130KHz, simplified operation and programming, and GPIB and RS232 interfaces. Also features many new standard test patterns.

TLC S.E., Inc.

■ **T1200**

Monitors Electrical Power • $695

A monitoring and diagnostic instrument that detects electronic power problems, checks for correct electrical wiring, and indicates power status via a LED display. Recommends solution to any power problems

Security Systems

Business Security Systems

■ **Technalock**

$22.45

Physical cable and lock that mounts on equipment and secure surface to deter theft.

C. H. Systems, Inc.

■ **Sleuth**

$329

Designed to operate in conjunction with Hayes and Hayes compatible modems at up to 2400bps. Stores up to 74 names and provides a barrier against unauthorized entry into the computer system.

■ **SuperSleuth**

$529

A full featured dialback access control device. Features an internal modem, stores up to 74 names, and provides a barrier against unauthorized entry into the computer system.

Digital Pathways, Inc.

■ **Defender II**

$4,725-10,000

The Defender II provides a wide range of information security technologies for dial-up access to computers, including call-back and direct connect authorization strategies.

■ **Defender System**

$4,725-10,000

The Defender System provides a wide range of information security technologies for dial-up access to computers, including call-back and direct connect authorization strategies.

■ **SBE**

$7,250-10,000

The SBE (SecureBridge Ethernet) bridges Ethernet LANs and when used in conjunction with Digital Pathways' SecureManager bridge it communicates only between the nodes that are specified, acting as a security controller.

■ **SLX**

$6,000

The SLX (SecureLink) provides a host-independent solution to the secure management and control of bidirectional, point-to-point access over any X.25 network.

LeeMah Datacom Security Corporation

■ **InfoKey**

$150

InfoKey is a portable secure call-in device that authenticates both the security device and user by using a unique and automatic multilevel security process.

■ **TraqNet 2001**

$845

TraqNet 2001 is a single line dial-in security system that incorporates patented secure callback and call-in technology to protect unauthorized host access on single lines.

■ **TraqNet Series**

$4,240+

LeeMah's multiport security devices (models 2008, 2032, and 2128) protect from one to 13,000 dial-in ports against unauthorized access. Their analog configuration permits for protocol, baud rate and interface independence.

Plexcom, Inc.

■ **901 WatchDog**

The 901 WatchDog is designed to continuously monitor the integrity of a cable by sending light down one fiber and checking the amount of received light. It shares fiber with the data transmission equipment with the use of optical couplers; however, the use of dedicated lines is more cost effective. Features alarms and switches, detects intrusion, and affords users the option of immediately closing data transmission.

Racal-Milgo

■ **Datacryptor 1027 Key Management Center**

Government endorsed link encryptor designed to provide communication with centralized control of network and key management functions.

■ **Datacryptor 1027C**

Government endorsed link encryptors designed to provide secure data communication with centralized control of network and key management functions via Racal-Milgo's Datacryptor 1027 Key Management Center.

■ **Datacryptor 64**

$1,900 +

QES link encryptor designed to protect data transmissions in point-to-point, multidrop, dial-up, or dedicated communication networks.

■ **Datacryptor 64-1027**

$1,900+

Government endorsed link encryptor designed to protect unclassified, national security-related information from disclosure, manipulation or destruction in point-to-point, multidrop, and dial-up networks.

■ **Datacryptor 64R**

$1,900

QES link encryptor designed to protect dial-up communication networks. These remote units are restricted from communicating with each other and only communicate with a central site Datacryptor 64.

Secure Technologies

■ **StationLock**

$49.95

The StationLock is a key operated electrical security switchlock that replaces the on/off switch on DEC VT2xx and VT3xx terminals. Provides high security and access restriction.

■ **Secure Cover**

The Secure Cover line of locking security cabinets provides access control for the DEC MicroVAX Series using high security locking systems and sliding LEXAN windows.

Security Dynamics

■ **ACM-1600**

Features an 80186 CPU, 320MB SRAM, as well as an extensive administrative management menu and interactive software for extensive and detailed control of all relevant paramters, port configurations, and system options.

Smart Ambient Monitors

International Power Machines Corporation

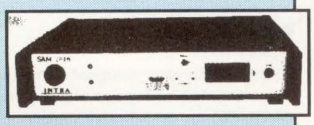
■ **Failsafe**

Designed to monitor up to 16 UPS machines manufactured by International Power Machines. Diagrams are displayed on the monitor regarding these systems and their components to identify the location of alarm faults.

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INTRA COMPUTER INC.



■ **SAM2010**
$4,395+
The SAM2010 is a device that monitors temperature, humidity, smoke, A/C power, water, air-flow, and intrusion in the computer room. SAM host control software allows computers to communicate with the SAM2010 to maintain a history log, and when environmental conditions become dangerous it automatically dials up to four key personnel; it performs a graceful software shutdown, and then a power shutdown. It is compatible with all power controllers and UPS systems. SAM2010 has satisfied the protection needs of many DEC VAX sites around the country. Better than an insurance policy, SAM2010 averts disaster before costly computer damage occurs.

■ **SAM3010**
$5,495+
SAM3010 supports all SAM2010 features, adding a programmer's control panel, non-volatile memory, Farenheit/Celcius selections, and 110/220 AC operation. Battery back-up and a modem port are available options.

TIMING DEVICES

ADAC CORPORATION

■ **1601GPT**

COMPUTER PRODUCTS, INC.

■ **GT306**
$695
Programmable real time clock with optional battery backed clock calendar.

■ **GT307**
$350
Complete time of day clock and one hundred year calendar with battery back-up. Automatic leap year compensation and end of the month recognition.

DATA TRANSLATION, INC.

■ **DT2769**
$1,080
Programmable real time clock with five clock frequencies, four operating modes, and two Schmitt triggers.

PRECISION STANDARD TIME

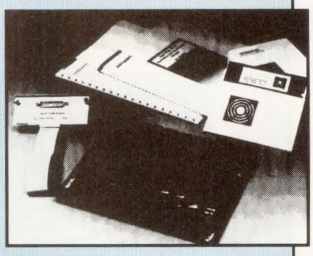
■ **1010**
$695

■ **1020**
$1,295
The 1010 and 1020 provide unattended, continuous time information synchronized to the International Time Standard, Coordinated Universal Time (UTC). Time outputs include year, month, day, hour, minute, seconds, tenths, hundreds, and thousandths-of-seconds.

■ **1021**
$1,495
Similar to models 1010 and 1020; however, the 1021 includes Time Manager software to sychronize the system clocks of VAX/VMS computers in standalone or DECnet networks.

SIMPACT ASSOCIATES, INC.

simpact



■ **RTC01**
$4,990
The RTC01, a single board, native VAXBI module, is a programmable real time clock allowing user selection of operating mode, time/count source, and timing resolution. The clock utilizes a 32-bit wide counter, that may be read without stopping the count, to provide over seven minutes of timing duration at 100 ns resolution. An on-board FIFO buffer is capable of storing the times or counts of 512 events for subsequent retrieval. The RTC01 is supported by VMS and VAXELN drivers adhering to Digital's real time calling standard (RTCS). The RTC01's VAXELN capability makes it an ideal real time clock for VAXRTA.

IF

YOU WANT

DEC® Depot Repair
- PDP®-8 to VAX® and Peripherals
- 5 Day Turnaround
- 24 Hour Turnaround
- Immediate Swap
- One Year Warranty

DEC Sales
- PDP-8 to VAX and Peripherals
- Same Day Shipment
- 180,000 Stocked Items
- One Year Warranty

DEC Training
- Your Site, Menomonee Falls, WI, or Camarillo, CA
- Customized Courses

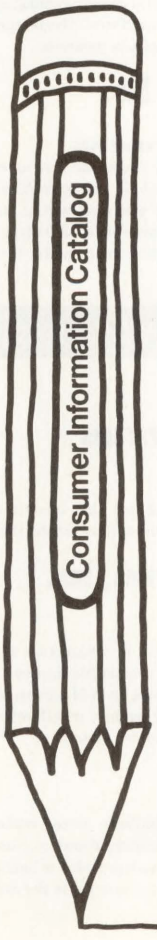
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- Predictive Software
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MAINTENANCE

MAINTENANCE

ADVANCED DATA SUPPORT SYSTEMS

■ **On-site maintenance and depot repair**

Services DEC PDP-11/VAX and IBM PC and compatible systems. Add-in peripheral sales. Advanced Data Analyzer and Power Line Monitoring Systems.

AMERICAN COMPUTER ENGINEERS

Services systems and processors, disk drives/subsystems, tape drives/subsystems, terminals/workstations, printers/plotters, and controllers. ACE also offers maintenance for and support of the entire DEC PDP-11 series, VAX 11/7xx series, and the entire MicroVAX line.

BTI

■ **On-site maintenance and depot repair**

Services IBM, Acer, AT&T, Panasonic, Okidata, HP, Fujitsu, CDC, and Maxtor products. Services disk drives, printers, and monitors. Provides on-site and depot repair, loaners, computer upgrades, training, intallation, and spare parts.

CALTRONIX

■ **Calibration and repair**

Electronic-Physical dimensional member of the National Conference of Standards Lab. Also offer maintenance agreements, on-site calibration and emergency service.

CARN INDUSTRIES, LTD.

■ **Depot repair**

Refurbish/repair electromechanical assemblies such as servo motors, and spindles.

CENTURY COMPUTER MARKETING

■ **Depot repair**

Services a wide range of new and refurbished DEC equipment including data communications products, high speed printers, peripherals, and PCs.

CINCINNATI BELL SUPPLY

■ **Depot repair**

Provides repair/exchange services for DEC equipment including systems and tape drives. All equipment features six month warranty and is fully inspected for wear.

COMMUNICATIONS TEST DESIGN, INC.

■ **Depot repair**

Services DEC, DataProducts, AT&T, and HP controllers, disk drives, tape drives, memory boards, modems, and printers.

CONTROL DATA CORPORATION

■ **Third party maintenance**

DEC and IBM and associated peripherals in a multi-vendor environment • Large, medium, and small computer systems and peripherals • On-site maintenance and on-call maintenance for systems and compatible peripherals with value-added software enhancements for DEC and IBM.

COSMIC ENTERPRISES, INC.

■ **Depot repair**

Services DEC, CDC, Fujitsu, Cipher, Printronix, DataProducts Clearpoint, and EMC products. Cosmic offers classic coverage with a four hour response, basic coverage with same day or best effort response, per call service, and depot repair contracts and service. Repairs DEC equipment, from LSI-11 to 8650 CPUs. Services include total system repair, upgrades, calibrations, power conversions, system and option refurbishment, burn-in service, diagnostic screening service, and module repair.

DIGITAL SOLUTIONS, INC.

■ **Depot repair**

Services DEC and DEC compatible products including systems, peripherals, tape drives, disk drives, memory, printers, enclosures, and cables.

DOW JONES SERVICE

■ **Depot repair**

Services DEC systems and related peripherals with a standard turn-around time of two-five days. Other services include on-site maintenance, extended warranty service, and emergency repairs.

DYNSERVICE NETWORK

■ **Depot repair**

National depot repair organization specializing in computer peripheral and electronic equipment.

ELECTRONIC SERVICE SPECIALISTS

■ **Depot repair**

Over 35 courses available at the training center for technicians. Remote diagnostic and technical support available. ESS has four core business areas: (1) depot repair of DEC computers and peripherals (PDP-8 to VAX 8800) featuring one week repair, with 24-hour and swap service available, as well as a one year warranty, (2) spare parts, subsystems, and systems available from a $13 million, 180,000 item inventory, (3) field service training: 35+ courses customized and conducted at ESS's facility or at customer's site, and (4) remote diagnostic and technical support, including standalone diagnostics.

GE COMPUTER SERVICE

■ **Depot repair**

Provides single source, customized repair, calibration, and maintenance services for a broad range of computers and multivendor computer systems, as well as electronic test and measurement equipment and industrial control systems.

GRUMMAN DATA SYSTEMS

■ **On-site maintenance and depot repair**

Services DEC, Data General, WYSE, and IBM products. Services mainframes, minis, micros, peripherals, LANs, voice communications, PCs, and office equipment. GSS provides hardware service, network maintenance, telecommunications, depot repair, equipment sales, consulting and other sevices to commercial, governmental, institutional and industrial customers.

HRL ASSOCIATES, INC.

TMS, Total Maintenance System, is a complete program containing all the features required for facilities maintenance management.

INTEGRATED SYSTEMS GROUP, INC.

Maintains and services UNIBUS and Q-bus compatible DEC equipment.

JADTEC COMPUTER GROUP

■ **Depot repair**

Offers on-site computer maintenance for boards, printers and terminals.

KCS COMPUTER SERVICES

■ **Depot repair**

Repairs and refurbishes a wide range of micro and minicomputer peripherals including 5.25" hard disk drives and .25" cartridge tape drives.

LEX COMPUTER SYSTEMS

Lex Computer Systems is a nationwide resource for DEC system needs specializing in system enhancements, productivity improvements and industry specific solutions. Lex's DEC system includes DECstations, VAXstations, MicroVAX and the VAX 6000/8000 line. Lex's DEC offering also includes complete networking, terminals, printers, and accessories. Lex's total support programs include installation, maintenance training, custom configuration, system integration and consulting. Lex also offers one of the most competitive leasing programs available.

MAINTECH



Maintech is a multifaceted service organization providing a single source for all computer service requirements. Since 1971, Maintech has provided the quality alternative for DEC and SUN hardware maintenance requirements. Our specialties include multi-system and multi-vendor critical applications environments utilizing contract terms custom-tailored to service needs. Maintech. The experience, resources and commitment to provide a total service solution.

MCDONNELL DOUGLAS

McDonnell Douglas Field Service Company has grown into one of the largest field service companies in the nation. For over two decades, McDonnell Douglas has been a leader in providing flexible and cost-effective third party service. Delivers single-source maintenance on super minis, micros, PCs, and peripherals, on DEC and DEC compatible systems and processors, Tandem computers and data communication networks and devices, disk and tape drives/subsystems, terminals, workstations, printers, plotters and controllers. Provides service on a wide variety of computer system hardware such as DEC, IBM PCs, AT&T PCs, Tandem, Memorex, Fujitsu, Cipher, Printronix, Emulex, Control Data, and McDonnell Douglas.

MESA TECHNOLOGY CORPORATION

■ **On-site maintenance and depot repair**

Depot repair and on-site maintenance for DEC and DEC compatible peripherals including Printronix, DataProducts, QMS, HP, and C.Itoh. Repairs PCs, laser printers, impact printers, disk drives, terminals, controllers, and networking products.

PERIPHERAL MANUFACTURING, INC.

Services disk and tape storage equipment. Cleaning and certification of computer tape and disk packs. Repairs Winchesters and disk packs, heads and filters. Manufactures new and repaired customer engineer aligment disk packs, skew tapes, heads, and filters.

RANDOMEX, INC.

National computer maintenance firm that provides preventive maintenance for DEC compatible memory and peripheral devices.

SOLID SYSTEMS, INC.

Maintains all DEC equipment, from PDP-11 through the VAX Series throughout the entire state of Texas. Offers complete service with over 25K square feet of office and warehouse space.

SORBUS, INC.

Sorbus services more than 400 brands of computer equipment, totaling over 3,000 different hardware based products. With 200 locations across the United States, Sorbus is hard at work for more than 45,000 customers at over 60,000 sites. Features the Sorbus Service Agreement that offers multi-year discounts and provides terms for standard on-site, carry-in/mail-in, deferred and hourly maintenance.

TRW CUSTOMER SERVICE DIVISION

■ **Depot repair**

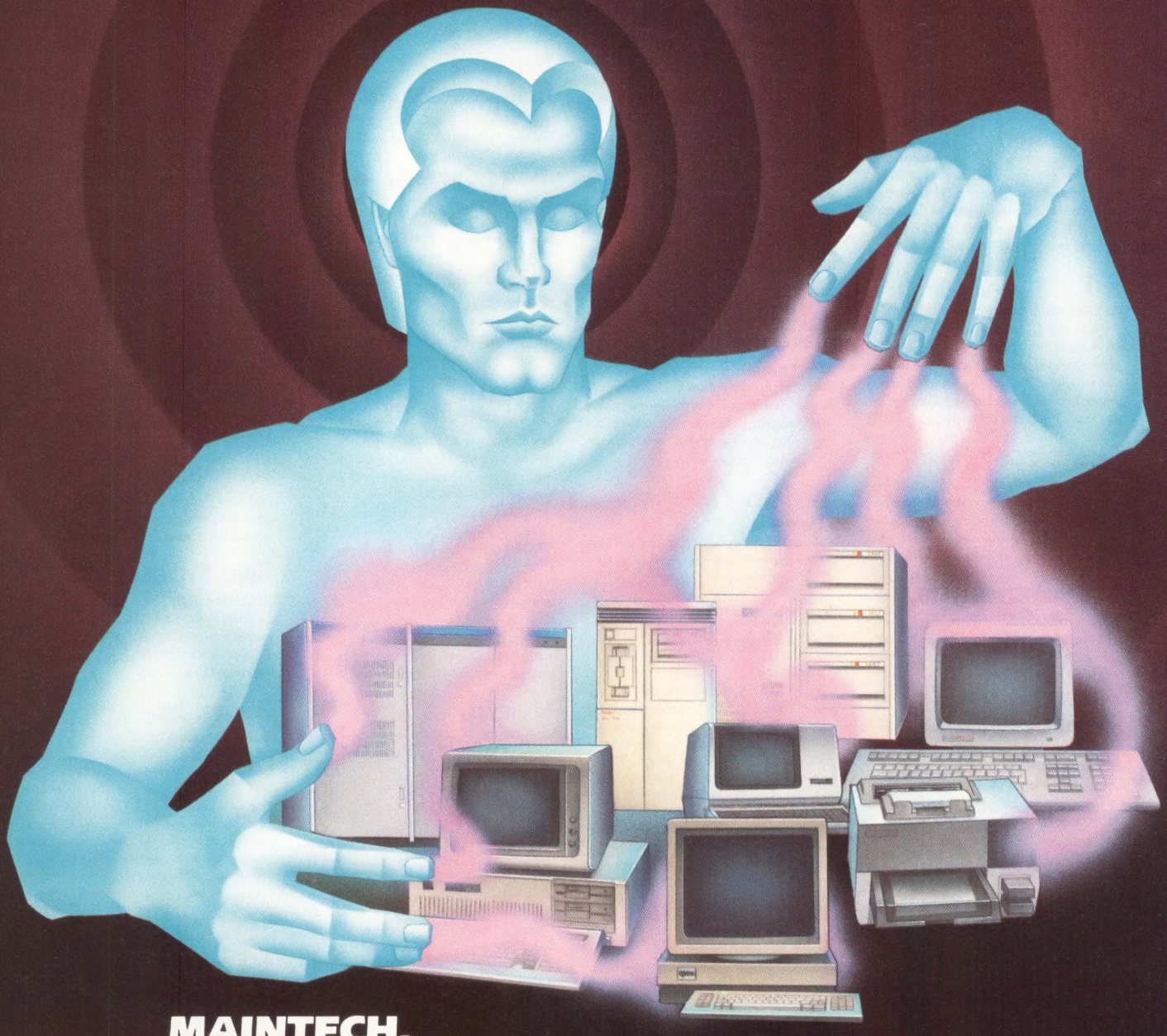
Depot and on-site repair specializing in DEC and DEC compatible system support for over 40,000 customers at 126 service points nationwide by over 2300 field engineers.

U. S. RESALE CORPORATION

■ **Depot repair**

Services include depot repair and maintenance for new and used equipment designed for PDP-11 and MicroVAX based systems.

GUARDIAN MAINTENANCE SERVICES.



MAINTECH.
Since 1971, the quality alternative for your DEC and Sun hardware maintenance requirements.

Critical applications maintenance is our only business. If your maintenance needs include multi-system, multi-vendor DEC or Sun based applications, then Maintech is your quality service choice.

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- "800" service dispatch.
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DISTRIBUTORS AND RESELLERS

ACS Equipment Corporation

Sells and leases DEC equipment, specializing in VAX systems and peripherals. Features three month to three year rental terms with option to buy.

American Computer Hardware Corporation

Offers a full line of new or refurbished DataProduct printers and supplies. Provides parts, customer interfaces and technical support.

American Diversified Capital Corporation

Sells DEC and DEC compatible used equipment including data communications devices, database processors, printers, plotters, and terminals.

American Digital Technologies, Inc.

■ Distributes systems and processors, data communications, networking, disk drives, tape drives, terminals, printers, power and security, system enclosures, controllers, and memory products • Distributes for Alps, AST, AT&T, Anderson Jacobson, CTX, CDC, Cipher, Clearpoint, C.Itoh, DataProducts, DEC, DataSouth, Dyna Five, Esprit, Emulex, Exabyte, Fujitsu, Maxtor, Microcom, Micropolis, Multi-Tech, Micom, Miniscribe, National Semiconductor, Persyst, Rodime, Segate, Sigma, Syquest, Teac T.D. Systems, Trimm, Unison, and Western Digital.

Offers a full line of DEC and DEC compatible products including processors, networking, data communications, disk and tape drives, terminals and printers.

AnDATACo

Offers a full line of DEC compatible peripherals including tape drives, non impact printers, controllers, processors, and disk drives.

Anthem Technology Systems

■ Distributes systems and processors, networking, disk drives/subsystems, tape drives/subsystems

Distributes high performance mass storage subsystems for OEMs, VARs, VADs, and large volume corporate end users. ATS, a subsidiary of Anthem Electronics, also offers LAN equipment, controllers and adapters.

Arrow Electronics, Inc.

■ Distributes systems and processors, disk drives/subsystems, tape drives/subsystems, terminals, printers/plotters, power, and security systems • Distributes for MDB, Imprimis, DILOG, and Trimm

Standard packages incorporate Trimm Industries tower or fullrack cabinets, removable 5.25" chassis from MDB Systems, and Imprimis disk drives. All subsystems are equipped with DEC compatible DILOG controllers.

Bell Atlantic Data

Offers a wide range of DEC compatible equipment including processors, communications, networking, disk and tape drives, terminals, output devices, and controllers. Option to lease.

BOMARA

Distributor of DEC compatible data communication equipment manufactured by Advanced Computer Communications (ACC).

Brookvale Associates

Quality and support are hallmarks of Brookvale's 16 years as a leader in the DEC used equipment marketplace. Today, Brookvale is the premier supplier of reconditioned fully-integrated VAX systems from the low-end MV II and 700 through Digital's 6000 and 8000 series. Buy, sell, rent or lease-call Brookvale.

C. D. Smith & Associates

Buys, sells, trades, rents and leases all VAX systems and options in VAX 62xx, 63xx, 8xxx, 7xx, and MicroVAX II and III Series.

California Boards

Buys and sells DEC and DEC compatible equipment including processors, disk drives and controllers, tape units, communication devices, memory, terminals and printers. Backed by a one year warranty. Eligible for DEC maintenance.

Carlson Computer International

Offers DEC compatible equipment including processors, communications, networking, disk and tape drives, terminals, workstations, output devices, data acquisition systems and controllers.

Century Computer Marketing

Offers a wide range of new and refurbished DEC equipment including data communications products, high speed printers, peripherals, and personal computers.

Channel Marketing Inc

Sells DEC compatible terminals, printers networking devices and storage subsystems.

Cincinnati Bell Supply

Remanufactures DEC equipment including systems and tape drives. All equipment features a six month warranty and has been fully inspected for wear. Lease and finance options available.

Clayton Computer Systems

Clayton computer systems offers new and used DEC and DEC compatible hardware including CPUs, printers, subsystems, peripherals, cables, communication devices, memory, and accessories. Distributes Cipher tape drives, CDC disk drives, DataProducts printers, and DILOG, Emulex and Fujitsu disk and tape drives.

Compurex Systems Inc.

Specializes in new and reconditioned DEC equipment including systems, memory, cluster hardware, communication products, disk drives, tape drives, printers, and terminals. Lease and rental options available.

Computer Clearing House

Provides DEC compatible integration of processors, networking, communication, disk and tape subsystems, output devices, and controllers for the UNIBUS, Q-bus and BIbus environments.

Computer Dataco

Carries laser, band, matrix, color, graphics, and label printers. Features DataProducts, Genicom and Miltope products. Nationwide service is also provided. Printers to 90 ppm.

Computer Management

Sells and maintains DEC compatible used equipment. Lease options available.

Contemporary Cybernetics Group, Inc.

■ Distributes for Wyse, Genicom, and Exabyte

Offers DEC compatible peripheral products including terminals, workstations, impact and non-impact printers, and high capacity tape and disk subsystems.

Continental Resources

Sells and services microcomputers, computer peripherals and electronic test equipment for DEC desktop products. Lease options available. Offices nationwide. Toll free 800 937-4688.

Control Cable

Provides fully tested, unconditionally guaranteed cables as well as data communication, networking, and Ethernet products.

Craig Data Cable

Offers a full line of DEC compatible products including modems, LAN devices, cables and accessories. Products are backed by a one year warranty.

CYCOM Systems Limited

■ Distributes data communications equipment for ACC.

Distributor for DEC compatible data communication equipment manufactured by Advanced Computer Communications (ACC).

Data 3 Computer Corporation

Sells unused, used, and refurbished DEC processors, disk drives, memory, data communication devices, tape drives, controllers, terminals, and printers.

Data Com South

■ Distributes data communications equipment for ACC.

Distributor for DEC compatible data communication equipment manufactured by Advanced Computer Communications (ACC).

Data Rentals & Sales

Sells new and used DEC compatible euqipment specializing in data communication devices and terminals. Lease options available.

Datalease

Offers a full line of DEC and DEC compatible products including terminals, printers, disk subsystems, tape subsystems, memory, communications, and accessories.

DCD

■ Distributes data communications equipment for ACC.

Distributor for DEC compatible data communication equipment manufactured by Advanced Computer Communications (ACC).

Delta Z Corporation

Sells DEC used equipment.

Demco Inc.

Sells DEC compatible terminals, workstations, system enclosures, and power and security systems.

DEX Corporation

Offers DEC compatible disk and tape drives from manufacturers including Fujitsu, Toshiba, DILOG, Spectra Logic, and Cipher.

Digital Basics, Inc.

■ Distributes computer systems, workstations, personal computers, controllers, disk subsystems, tape subsystems, optical subsystems, memory, printers, terminals, enclosures. • Distributes for DEC, Allied Telesis, Cipher, Clearpoint, CMD Technology, Dataram, DILOG, Everest, Imprimis, Kennedy, Laserdrive, Maxtor, Microterm, Tektronix, Toshiba, and Trimm.

DEC system solutions for a wide range of computer applications. Complete system integration of hardware and software products to provide the best price/performance solutions available.

Digital Computer Exchange, Inc.

Buys, sells, and trades DEC VAX, PDP, and LSI systems and peripherals including CPUs, memories, disk and tape drives, terminals, printers, and interfaces.

Digital Computer Resale

Buys, sells, and leases DEC and DEC compatible equipment.

Digital Solutions, Inc.

■ **Distributes for DILOG, DEC, Imprimis, EMC, Emulex, Trimm, Cipher, and Maxtor.**

Offers a full line of DEC and DEC compatible products including systems, peripherals, tape drives, disk drives, memory, printers, enclosures, and cables.

Douglas Computer International

Supplier of new and refurbished computer systems, tape drives, disk drives, controllers, terminals, and printers.

DPS

■ **Distributes data communications equipment for ACC.**

Distributor for DEC compatible data communication equipment manufactured by Advanced Computer Communications (ACC).

Dynamic Systems Northwest, Inc.

Offers DEC compatible laser printers, line and band printers, microcomputers, networking devices, terminals, and printer supplies.

Eakins Associates, Inc.

Specializes in DEC compatible products including disk and tape subsystems, Ethernet solutions, communications, custom cables, and terminals for the VAX and MicroVAX.

El Camino Resources, Ltd.

Buys, sells, trades, rents and leases new DEC equipment that has been accepted for DEC maintenance.

Eltec, Inc.

Sells a full line of DEC compatible peripherals including disk/tape drives and controllers, terminals, memory, and communication devices specifically for the Q-bus, UNIBUS, and BIbus.

Glasgal Communications, Inc.

Offers a full line of advanced data communication and networking products including LANs, modems, fiber optic devices, multiplexers, security equipment, voice and data integration, T-1 devices and cables.

Group Three Electronics

Offers DEC compatible disk drives and subsystems, tape drives and subsystems as well as controllers from Cipher, Fujitsu, and DILOG.

Hacopian & Associates

Sells new and used DEC and DEC compatible products.

Ideal Technologies

Distributes laser printers for Texas Instruments.

Offers the full line of Omnilaser Series laser printers manufactured by Texas Instruments.

Integrated Design Engineering, Inc.

■ **Distributes for ADDS, RAD Data, and Okidata.**

Offers a full line of DEC compatible products including data communication devices, networking, Ethernet devices, terminals, workstations, and output devices.

Jack Hadley Design

ICEX maintains an inventory of over $1.5 million of new and used DEC and Sun equipment. Custom configured systems with DEC or third party compatibles.

Jadtec Computer Group

Suppliers of new and used DEC and DEC compatible equipment including complete CPU upgrades, terminals, printers, communication devices, and modems, and interfaces add-on disk drives and back-up storage drives.

Jordan Electronics

Data communication specialists offering solutions for LANs (broadband, baseband, data switches), WANs (packet networks, switching multiplexers, leased line networks), and DOVs (data over voice) networks.

K/Rep Sales

Sells new DEC compatible equipment including systems, subsystems, data communications, and terminals.

KEL-MAT/DAK

■ **Distributes data communications equipment for ACC.**

Distributor for DEC compatible data communication equipment manufactured by Advanced Computer Communications (ACC).

Kimberly Electronics

Worldwide source of DEC and DEC compatible equipment including systems, CPUs, VAXclusters, communications, networking, memory, printers, tape drives, disk drives, and controllers. Custom configures DEC systems.

L.A. Cable Connection

Sells, installs and services new and refurbished DEC compatible equipment, specializing in cabling, patch bays, multiplexers, and modems.

Lamcom Corporation

Consulting specialists in local and wide area networking. Products include Datability terminal server, ACC remote bridges, Retix local bridges, network accessories, and TCP/IP software and hardware.

BUY, SELL, RENT DEC/VAX

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LDI Technologies

Distributor and lessor for DEC and DEC compatible data communication equipment manufactured by Advanced Computer Communications, Emulex, Codex, and DEC. Offers DEC compatible systems, processors, data communications, networking, disk and tape drives, terminals, output devices, workstations, enclosures, and controllers. Leasing options available.

Lex Computer Systems

Lex Computer Systems is a nationwide resource for DEC system needs specializing in industry specific solutions. Inventory includes systems, networking, workstations and terminals. Leasing options available.

LifeSense Computer Products, Inc.

Buys, sells, trades and leases new and used DEC, IBM, CDC, Emulex, and Cipher products. System configuration and large inventory of refurbished equipment available.

LIOCS Corporation

Offers a full line of used DEC equipment including systems and processors, data communications, networking and Ethernet devices, disk and tape drives, terminals, output devices, and controllers.

Management Computer Service

Buys new and used DEC equipment with cash, certified bank checks, and wire transfers.

Maximum Strategy, Inc.

Buys and sells new and used DEC equipment including systems, memory products, printers, terminals, disk drives, controllers, tape drives, newtworking and communications devices.

McDonnell Douglas

Provides field service on DEC and DEC compatible systems and processors, data communication devices, disk and tape drives/subsystems, terminals, workstations, printers, plotters, and controllers.

MCS Computer Products, Inc.

Specializes in the application of optical disk technology; provides mass storage solutions using the latest laser optical disk (CD-ROM, WORM, Erasable) and helical scan mag tape technologies.

Meadowlark Enterprises, Inc.

Buys and sells new and used DEC and DEC compatible equipment including systems, tape drives, disk drives, data communication and networking products, and controllers. Lease options available.

MESA Technology Corporation

■ Distributes for Cipher, Hewlett-Packard, Optimem, C.Itoh, DataProducts, Printronix, Laser Connection, and Caere.

Provides a variety of leading DEC compatible peripherals including impact and non-impact printers, optical disks, magnetic disks, and tape subsystems, bar coding systems, networking and communication products, terminals, and power supplies.

Micro Solutions

■ Distributes data communications equipment for ACC.

Distributor for DEC compatible data communication equipment manufactured by Advanced Computer Communications (ACC).

Microtek Systems International

Buys, sells, and trades used DEC equipment and all equipment is eligible for DEC maintenance service. Lease options available.

Midwest Systems, Inc.

Leading supplier of new and used DEC hardware including systems, memory upgrades, printers, communication devices, tape drives, disk drives, and power supplies. All equipment is pretested and guaranteed eligble for DEC maintenance.

Minicomputer Exchange

Buys and sells DEC compatible systems, disk drives/subsystems, tape drives/subsystems, terminals, workstations, printers, plotters, and controllers. Lease options available.

Minnecomputers, Inc.

A seven year old full service dealer in new and used DEC equipment. Buys and sells the complete line of DEC and DEC compatible equipment.

MTI Systems Corporation

Sells, installs and services computer and data equipment for DEC, Hewlett-Packard, DataProducts, Texas Instruments, and C.Itoh. Lease options available.

Leading distributor of DEC and DEC compatible equipment including systems, data communications, networking devices, printers, and disk and tape storage systems. Offers buy, lease or rent options.

Multitronics

Multitronics, Inc. has been a leader in the DEC marketplace for more than ten years, specializing in DEC VAX hardware, peripherals, and power convertions.

New York Computer Exchange

Specializing in new and used, fully warranted DEC hardware. Sells and buys systems, peripherals, options, disk and tape drives, printers and terminals.

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TriLogic, your total solution Digital Desktop Distributor. Whether building a DECnet*/Ethernet local area network, expanding your system, integrating personal computing or adding workstations, TriLogic offers the required components, hardware and software.

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Northeast Minicomputer, Inc.

Sells used DEC equipment including systems and processors, data communication products, disk and tape drives/subsystems, terminals, workstations, output devices, and controllers.

Northeast Peripherals Inc.

Provides DEC compatible peripherals including disk drives, floppy drives, tape drives, controllers, memory and tape subsystems.

Onyx Components

Buys and sells DEC equipment including systems, tape drives, cabinets, communication devices, disk drives, memory, terminals, printers, and cluster products. Lease options available.

PACE

■ **Distributes data communications equipment for ACC.**

Distributor for DEC compatible data communication equipment manufactured by Advanced Computer Communications (ACC).

Peripheral Manufacturing, Inc.

Disk drives and tape drives, magnetic computer tape cleaner/rewinder, certifiers. Remanufactured disk packs. C.E. alignment disk packs. Recertified computer tape.

Peripheral Parts Support, Inc.

Sells new and used DEC compatible equipment including disk drives and subsystems, tape drives and subsystems, terminals, workstations, printers, plotters, and controllers for the Unibus and Q-bus environments.

Pioneer Technologies Group

■ **Distributes electronic component parts, computer systems and peripherals • Distributes for DEC, Wyse Technologies, Intel, Motorola, Mips, Maxor, Mountain Fujitsu, Western Digital, Genicom, Tektronics, Emerson, and National.**

A technical sales force, integration department, and ten locations in the Mid-Atllantic, Southeast and California give Pioneer Technologies the ability to meet technological needs.

Radgo

Sells new DEC accessories including disk packs, W/P ribbons, spare parts, boards and components, computer furniture and terminal stands.

Reliable Computer Services, Inc.

Buys and sells DEC used equipment including processors, data communication devices, networking, disk and tape drives, terminals, output devices, data acquisition systems, and controllers.

Scherers

Sells a full line of DEC equipment.

Software Systems Technology, Inc.

■ **Distributes laser, bar code, solid ink, line and dot matrix printers, terminals, and modems • Distributes for DataProducts and Hewlett-Packard.**

S/S/T is a full service software and hardware supplier specializing in networking, desk top publishing, office automation, and communications, both domestically and internationally.

Solid Systems, Inc.

Buys and sells all DEC and DEC compatible hardware. Specializes in custom-configuration of VAX and MicroVAX hardware. All equipment carries a 30 day to one year warranty and is guaranteed eligible for DEC maintenance.

South Hills Electronics

Sells DEC and DEC compatible data communication equipment, cabling systems, and power devices.

Southern Digital Services

Sells DEC and DEC compatible equipment including systems and processors, data communication and networking devices, disk and tape drives, terminals, output devices, enclosures, and controllers.

Susco Technology Procurement, Inc.

Sells used DEC compatible equipment including systems and processors, data communication and networking devices, disk and tape drives, subsystems, terminals, output devices, and workstations.

System Technology Associates

Specialists in DEC compatible computer peripherals including disk/tape drives and subsystems, controllers, printers, terminals, and power products.

Tartan Technical, Inc.

■ **Distributes laser printers, and memory products.**

Tartan Technical distributes laser printers manufactured by AST Research and memory products for DEC, Sun, and MacIntosh manufactured by Camintonn Corporation, Kensington Technology, and The Advanced Ironworks.

Technic Computer Service

■ **Distributes printers for DataProducts.**

Offers a complete line of high performance DEC compatible DataProducts printers, including laser printers, band printers, and dot matrix printers.

Tecnimat

Tecnimat/TDS, supplying Ethernet products as components or integrated systems, specializes in premise distribution hardware, LAN/LAN and LAN/WAN bridges, routers, and Network Management Systems

The Printer Source

Specializes in selling new high speed printers including heavy duty band printers, general purpose band printers, high performance line matrix printers, and non-impact laser printers.

Total Tec Systems, Inc.

Supplier of new and used DEC and DEC compatible products, including systems, disk and tape drives, networking, memory, controllers, terminals, printers and enclosures.

Trilogic

TriLogic

Sells DEC compatible printers, controllers, data communication devices, disk drives, and tape drives.

U.S. Computer Sources

Suppliers of Imprimis, Fujitsu, Kennedy, Cipher, Printronix, DataProducts, and Centronics equipment, as well as DEC CPUs. Domestic customer base includes the U.S. government, Fortune 500 companies, and businesses nationwide.

U.S. Resale Corporation

Buys and sells DEC Q-bus and compatible computer equipment including systems, upgrades, and peripherals.

Ur Associates, Inc.

■ **Distributes data communications equipment for ACC.**

Distributor for DEC compatible data communication equipment manufactured by Advanced Computer Communications (ACC).

US Digital

Sells new and used DEC and DEC compatible equipment including terminals, disk storage subsystems, tape storage subsystems, printers, systems, and controllers.

Leasing/Rental

ACS Equipment Corporation

Sells and leases DEC equipment, specializing in VAX systems and peripherals. Features three month to three year rental terms with options to buy.

American Diversified Capital Corporation

Rents and leases DEC and DEC compatible used equipment including data communications devices, database processors, printers, plotters, and terminals.

Brookvale Associates

Short-term RENTAL of VAX systems and peripherals is BROOKVALE'S specialty. Six and 12 month rental contracts are tailored to fit budget requirements.

Cincinnati Bell Supply

Leases remanufactured DEC equipment including systems and tape drives. All equipment features a six month warranty and has been fully inspected for wear.

Clayton Computer Systems

Rents and leases new and used DEC and DEC compatible hardware including CPUs, printers, systems, subsystems, peripherals, cables, communication devices, memory, and accessories.

COSAG Computer Systems

Offers DEC and DEC compatible equipment including systems, disk drives, tape drives, memory upgrades, communication controllers, printers, and terminals.

Data Rentals & Sales

Leases new and used DEC compatible equipment specializing in data communication devices and terminals.

Datalease

Offers a full line of DEC and DEC compatible products including terminals, printers, disk subsystems, tape subsystems, memory, communications and accessories with rent, lease, or buy options.

Dataware Systems Lease

Buys, sells, leases, and rents DEC and DEC compatible pheripheral equipment for the PDP, VAX, and MicroVAX systems.

Digital Solutions, Inc.

Offers a full line of DEC and DEC compatible products including systems, peripherals, tape drives, disk drives, memory, printers, enclosures, and cables.

El Camino Resources, Ltd.

Buys, sells, trades, rents and leases new DEC equipment that has been accepted for DEC maintenance.

GE Computer Service

Provides short- and long-term rental and leasing of top-name PCs, computer equipment, and electronic test and measurement equipment. Also sells used equipment and computer supplies.

LDI Technologies

DEC compatible systems, processors, data communications, networking, disk and tape drives, terminals, output devices, workstations, enclosures, and controllers.

Lex Computer Systems

Lex Computer Systems is a nationwide resource for DEC system needs specializing in industry specific solutions. Inventory includes systems, networking, workstations, and terminals.

LifeSense Computer Products, Inc.

LifeSense Computer Products, Inc. buys, sells, trades and leases new and used DEC,

IBM, CDC, Emulex, and Cipher products. System configuration and large inventory of refurbished equipment available.

Meadowlark Enterprises, Inc.

Leases new and used DEC and DEC compatible equipment including systems, tape drives, disk drives, data communication and networking products, and controllers.

Minicomputer Exchange

Leases DEC compatible systems, disk drives/subsystems, tape drives/subsystems, terminals, workstations, printers, plotters, and controllers.

MTI Systems Corporation

Leases computer and data equipment for DEC, Hewlett-Packard, DataProducts, Texas Instruments, and C.Itoh.

Multitronics

Multitronics, Inc. has been a leader in the DEC marketplace for more than ten years, providing leasing options for DEC VAX hardware, peripherals, and power conversions.

Onyx Components

Rents and leases DEC equipment including systems, tape drives, cabinets, communication devices, disk drives, memory, terminals, printers, and cluster products.

Transtector Systems, Inc.

Leases used DEC equipment and all equipment is eligible for DEC maintenance service.

U. S. Leasing

Leading financial resource for DEC customers, one of the nation's largest lessors of new DEC equipment and one of the largest suppliers of used DEC equipment to the secondary DEC market.

Services

Abend Associates, Inc.

■ **Consultanting**

Abend Associates, Inc. provides custom systems design and application software development using the ORACLE RDMS.

American Digital Technologies, Inc.

■ **Timesharing**

Remote or on-site usage on clusters with 11/780s, 785s and 8GB disk storage. Features Tymnet access, media conversions, development tools, and sales/marketing software.

■ **Disaster Recovery Facility**

Within 24 hours of disaster, VAX 11/780 and 785 computers are available for emergency use. Features Tymnet access, consulting services, and on-site workspaces.

American Diversified Capital Corporation

■ **Disaster Recovery**

Provides a hotsite computer back-up facility with VAX 11/780, 11/785, and 8600 CPUs. Offers RA81 disk drives, tri-density tape systems and high speed printers through a VAXcluster.

■ **VAX Timesharing**

Provides remote or on-site timesharing services via a VAXcluster including 8600, 11/785 and 11/780 CPUs. Available 24 hours per day, seven days per week, on either timeshared or dedicated processors.

Cabletron Systems, Inc.

■ **Consulting**

Offers a comprehensive set of integrated network services to establish and maintain an Ethernet network. Services include network planning and design, installation and start-up, training and ongoing operational support.

Comdisco Disaster Recovery Services

■ **Diaster Recovery**

Provides a VAX 8700 and 8810 processor with a full set of peripherals. This configuration has 12MIPS and 15GB of storage; one of the largest DEC hotsites in the world.

Computer Methods Corporation

■ **Consulting**

Specialists in integrating VAX-to-Macintsoh networks including options for document interchange (text and graphics), electronic mail, office automation, and engineering and scientific applications.

Computer Transportation Services

■ **Computer Transportation**

Provides specialized transportation for all computer equipment via padded van or air freight.

Continuum Consulting, Ltd.

■ **Consulting**

Continuum Consulting provides management, technical consulting services and software products to companies using DEC VAX/VMS systems, layered software, or any variety of commercial application products.

Control Data Corporation

■ **Training**

Provides on-going hands-on training in CDC's computer laboratory, including classroom instruction and individual study.

Coptech

■ **Magnetic Media Duplication**

Duplicates magnetic media on .5" 9-Track tape and TK-50 tape cartridges. Fast turnaround with guarantee on service.

Data Clean Corporation

■ **Computer Room Cleaning**

Computer room and electronic equipment cleaning specialists. Maintain computer rooms to create dirt- and dust-free environments. Also provides disaster recovery clean-up.

Digital Dealers Association (DDA)

■ **Trade Association**

Trade association founded in 1982 to promote an orderly secondary market for DEC products. Member benefits include educational meetings, newsletters, and other services.

DiscopyLabs

■ **Tape Duplication**

TK50 tape duplication services include the .5" cartridges, .25" cartridges, .50" magnetic tapes, Bernoulli cartridges and any size diskette.

Disk Interchange Service Company

■ **Disk Format Conversion**

DISC specializes in transferring files between incompatible computers, including mainframes, minis, micros, workstations, word processors, and other equipment. DISC supports VAX TK-50 and magnetic tape, PDP-11 floppies, disk packs and tape, DECmate, Rainbow, and others, providing over 1000 formats in all.

Essential Resources, Inc.

■ **Training**

Essential Resources, Inc. (ERI Training) is the largest independent DEC training company in the country. The company produces and distributes the largest DEC based video course training library available. ERI Training also provides instructor-led training at the customer's site as well as hotel-based seminars.

FlipTrack Learning Systems

■ **Training**

Fliptrack, a leading publisher of audio cassette courses for business software, has courses for computer operation, word processing, spreadsheets, databases, desktop publishing and integrated software.

Jadtec Computer Group

■ **Consulting**

Offers training in Jadtec system installation and integration into office operations.

Lamcom Corporation

■ **Consulting**

Consulting specialists in local and wide area networking. Products include Datability terminal server, ACC remote bridges, Retix local bridges, network accessories, and TCP/IP software and hardware.

Lex Computer Systems

■ **Training**

Lex Computer Systems is a nationwide resource for DEC system needs specializing in system enhancements, productivity improvements and industry specific solutions.

■ **Consulting**

Lex Computer Systems is a nationwide resource for DEC system needs specializing in system enhancements, productivity improvements and industry specific solutions.

Meyer Software

■ **Disaster Recovery**

Recovers "irrevocably" corrupt disks, mounts the unmountable, with 90% success to date, and over 4GB of data rescued.

National Computer Systems

■ **Disaster Recovery**

National Computer System's recovery center consists of two VAX hot sites that when clustered, provide a 30MIPS processing capability with 40GB of disk storage capacity.

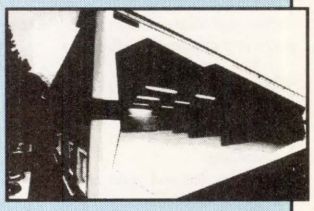
National Data Conversion Institute

■ **Data Conversion**

Services include data translation between minis, mainframes and micros, document conversion between word processors, data conversion for databases and spreadsheets, optical scanning (OCR) to achieve high quality output for text, and typeset materials in over 2500 formats.

Provident Recovery Systems

PROVIDENT
RECOVERY SYSTEMS



■ **Disaster Recovery**

Provident provides relocatable emergency data centers mobilized to the client site for disaster recovery. Environmentally controlled, computer ready, facilities arrive on-site to re-establish operations and communications. Keeping staff at "home" rather than at a remote location allows you to significantly reduce the cost, logistics, and trauma of a data center disaster. Provident not only delivers and installs the emergency data center, but communications, hardware replacement and multiple other phases of the recovery process. Because Provident facilities are available in 320 square foot increments up to 3500 square feet, recovery processing may be a mirror image of current data center environments, whatever the hardware requirements, rather than a scaled down "disaster mode" operation. Facilities include raised flooring, computer air conditioning, main and distributive power panels, halon, security, and diesel generators. Since 1985 Provident has serviced the data processing community with the innovative mobile data center, and continues to prove to be the most logical approach to recreating the data center operations of your company. Please call or write Mr. Kim Belk for more information on how Provident can help in the survival of a computer disaster.

Sidlinger Computer Corporation

■ **Consulting**

Consultants for system configuration, management, training, and technical and software support on the VAX.

Simpact Associates, Inc.

■ **Development Training**

The Software Development Toolkit provides all software, training, and support necessary for successful custom software development. It aids the user in developing custom protocol software for Simpact's ICP series of front-end communication processors. The Toolkit includes (1) a real time executive, host resident driver for VMS, RSX, or ULTRIX, (2) an ICP resident driver, (3) application templates for bit synchronous, byte synchronous, and asynchronous protocols, (4) software necessary for generation of object code for linking and downloading programs, (5) debugging tools, (6) a three-day training class for three programmers, and (7) documentation.

Sungard Recovery Systems

■ **Disaster Recovery**

Offers access to and exclusive use of DEC 8800 systems, clustered VAX configurations, remote testing support, centralized network control, state-of-the-art telecommunications capabilities, and complete contingency planning services.

System Industries

■ **Consulting**

Provides consulting serives designed to define and improve data center management and application efficiency.

Technology Concepts Inc.

■ **Consulting**

Provides voice and data communication services and software products. Specialists in connectivity, integration, and network management. Services include consulting, software engineering and educational support services.

U. S. Professional Development Institute

■ **Training**

USPDI, founded in 1977, provides on-site and video/CBT training in the computer technology and federal government standards areas.

Up Time Disaster Recovery, Inc.

■ **Computer Disaster Recovery**

Provides contingency planning and relocatable hotsites with VAX 6300 systems in the event of disaster.

Western Union

■ **Data Communications Services**

Provides public electronic mail and data communication services for users of PCs, word processors, terminals, and mainframe and minicomputer systems worldwide.

Supplies

Almetek Industries Inc.

Provides MINI-TAGS that eliminate the high cost of tracing outlines by marking wires for technicians. Non-conductive, noncorrosive and safe for fiber optic cables, LANs and voice and data line communications. Ten year warranty.

American Computer Hardware Corporation

Sells supplies and accessories for DataProducts printers including band printers, dot matrix printers, and laser printers.

Applied Creative Technology

Manufactures "Systemizer Plus" peripheral sharing device. Features IM buffering per user, file transfer, bidirectional communication, universal serial/parallel adapting, distributed processing. Priced at $399.

Applied Data Communications

Manufacturers the RDH-3.5, a 3.5" loader/labeler/printer that duplicates data from flexible drives to this device for custom label printing and application.

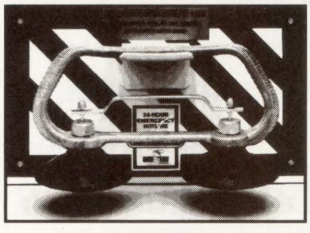
Compu-Cart

Compucart holds a PC system in a compact space (four square feet) and offers security. One key locks up cart and the mobility allows more than one user.

Computer Expressions

Specializes in applying company logos to a long line of premium mouse pads. Major clients include DEC and Apple Computer. Pads are used to advertise service numbers and logos, and to list short cuts and tips. A unique process is employed instead of screening, providing nearly 300x300 dpi resolution. Clients get excellent reproduction even from sophisticated computer generated artwork. Special inks penetrate into the pad. The entire pad's surface may be imprinted, not just a small corner. Logos are guaranteed not to peel or crack for the life of the pad. Mouse pads are available in grey, red and gold. Samples with logos are only $12.50 and are shipped in 72 hours; 144 pads with imprinting cost $3.70 each.

Data Clean Corporation



Suppliers of QUAKE GRIP, a computer fastening product that secures terminals, modems, printers, and other equipment from theft and destruction from earthquakes. Access floor lifters and bracket holds your floor lifter tool. An attractive highly visible bracket holds your floor lifter tool. Ready for any emergency.

Datacover Inc.

Manufactures hard plastic covers for MicroVAX and VAX CPUs, disk drives and power switches. Designed to protect exposed switches from accidental shutdown. Over 150 different types available for most computers and peripherals.

GE Computer Supplies

GE Computer Supplies sells computer supplies for a broad range of computers and multivendor computer systems.

Jensen Tools, Inc.

Provides specialty tools, tool kits, test equipment, and supplies used by electronic technicians, and communication service personnel.

MESA Technology Corporation

Complete printer supplies for all major manufacturers including ribbons, laser toner, cartridges, drums, plotters, thermal and ink jet printers, magnetic diskettes, and tape and optical media.

Misco

Offers 24 hour shipment for over 2500 computer supplies and accessories. Products include magetic media, furniture, printer supplies and data communications equipment.

Optical Coating Laboratory Inc.

Manufactures the Glare/Guard Profile, an optically coated tempered glass that fits over a DEC 220 or compatible screen. Reduces glare, flicker, static and VLF radiation. Enhances contrast and resolution.

Samsung Semiconductor

Manufactures a FIFO dual port buffer memory for use in high-speed, high end computers and communication systems.

Sprague Magnetics, Inc.

Offers new and refurbished computer supplies and accessories including magnetic tape heads, disk heads, printheads, and head disk assemblies. Also features replacement components such as AC/DC motors, capstans, filters, spindles, and printed circuit boards.

Sunflex Company

The Sunflex Voltfree Filter is the industry-leading, premium quality microfiber VDT filter. It reduces glare and reflections, eliminates static, enhances contrast and reduces VLF (very low frequency) emissions. Available in Behind-The-Bezel, custom conforming or Front Plate styles to fit any DEC VDT. Prices from $69.99 to $149.00.

Synctronics

Maximize your software investment with custom computer key sets that display any symbol, language, code, or legend. Compatible with DEC, IBM, WYSE, COMPAQ and other systems. Supports software including WordPerfect, MASS-11, and WPS+ on VT200 and VT300 Series keyboards.

Peripheral Manufacturing, Inc.

PERIPHERALS



Manufactures new and repairs disk packs and magnetic computer tape. C. E. alignment disk packs. Disaster recovery of tape and disks. On-site cleaning and inspection of disk packs and computer tape.



Data tape with ten year warranty. Special "ARCHIVAL STORAGE TAPE" for security of valuable information. Thirty year warranty. Cleaning/ceritfication on-site available.



Reduce job aborts. Increase tape life. Microprocessor base controlled. Self-diagnostics. Archival wind. Many options available. Certifiers for testing 1600/6250. Purchase, lease or rent.

Tartan Technical, Inc.

Manufactures Sprint It, a printer accelerator that is a transparent buffered DMA device which uses available VMS drivers to reduce the print job loads on the MicroVAX.

Texwipe

Manufactures products for cleaning and maintaining automated office and data processing equipment, including supplies that remove CRT dust and printer ribbon ink.

The Cylix Corporation

Manufactures surge protection for all communication lines including LANs, Ethernet, RS232/RS422, dedicated lines, dial-up, and high energy lines with nanoseconds response time. Features state-of-the-art protection for all voice data and signal applications regardless of interface type.

Time Motion Tools

Provides quality field service tools and tool kits including voice and data communication and telecommunication equipment, static control products, production aids, and test equipment.

System Integrators/ OEMs/VARs

Almac Electronics

Provides integration and networking solutions for UNIBUS, Q-bus and BIbus architectures and offers a full line of DEC compatible products including disk and tape subsystems, terminals, workstations, output devices and controllers.

Arrow Electronics, Inc.

Provides standard integration packages that incorporate Trimm Industries tower or full-rack cabinets, removeable 5.25" chassis from MDB Systems, and Imprimis disk drives. All subsystems are equipped with DEC compatible DILOG controllers.

Cambridge Automation

Offers custom configurations of new VAX, MicroVAX, and PDP-11 systems including memory, disk and tape storage, processors, and software. Fully integrated and tested prior to shipment. System pricing starts at $8,000 and subsystem pricing starts at $2,000.

Clayton Computer Systems

Offers new and used DEC and DEC compatible hardware including CPUs, printers, systems, subsystems, peripherals, cables, communication devices, memory and accessories.

Combustion Engineering, Inc.

Provides complete turnkey information based solutions for multicomputer equipment, operating systems and application software.

Compu-Share Business Management Systems

Value added reseller for DEC hardware that accommodates accounting systems, distribution systems, and integrated accounting/distribution systems software packages.

Computer Clearing House

Provides DEC compatible integration of processors, networking, communication, disk and tape subsystems, output devices, and controllers for the UNIBUS, Q-bus and BIbus environments.

Computer Logistics Inc.

Integrates processors, disk drives and subsystems, and tape drives and subsystems for Q-bus, UNIBUS, Sun and Apple environments.

CPU Options

Offers fully trained and experienced engineers, tested and carefully packaged equipment, and systems configured for specific needs.

Datalease

Provides integration of a full line of DEC and DEC compatible products including terminals, printers, disk subsystems, tape subsystems, memory, communications, and accessories.

DEX Corporation

Provides integration of DEC compatible disk and tape drives from manufacturers including Fujitsu, Toshiba, DILOG, Spectra Logic, and CIPHER.

Digital Accessories, Inc.

Digital Accessories markets a variety of disk and tape subsystems for DEC and Sun computer systems, optical disks, wireless modems and DEC compatible subsystems.

Digital Basics, Inc.

Provides integration of DEC and DEC compatible workstations, disk subsystems, memory, tape drives, and controllers. Provides cost effective, reliable solutions to configuration requirements.

Eakins Associates, Inc.

Specializes in integrating DEC compatible products including disk and tape subsystems, Ethernet soultions, memory, communications, X Window display stations and terminals for VAX and MicroVAX environments. Services all products.

Glasgal Communications, Inc.

Integrates a full line of advanced data communication and networking products including LANs, modems, fiber optic devices, multiplexers, security equipment, voice and data integration, T-1 devices and cables.

Grumman Data Systems

Integrates large scale information systems including military, commercial, administrative, and financial applications. Specializes in adapting commercial hardware and software for DoD and industrial manufacturing requirements.

L.A. Cable Connection

Authorized Level III value added reseller for 3Com, specializing in electronic printer sharing devices and A-B switches.

Lex Computer Systems

Lex Computer Systems is a nationwide resource for DEC system needs specializing in system enhancements, productivity improvements and industry specific solutions.

LIOCS Corporation

LIOCS offers a full range of support services including pre-installation consultation, conversion and implementation planning, user training, and post-installation assistance. Since 1975, LIOCS has been marketing DEC products and services in conjunction with its own application software expertise.

Maxcomp Computers, Inc.

Maxcomp Computers, Inc., is a system integrator for DEC and Motorola systems, including disk and tape subsystems for DEC, Motorola, and Sun Microsystems.

Minicomputer Exchange

Integrates DEC compatible systems, disk drives and tape drives/subsystems, terminals, workstations, printers, and controllers. Lease options available.

MOD-TAP System

Offers full integration of cabling and wiring communication systems that are compatible within UNIBUS, Q-bus, and BIbus environments.

MTI Systems Corporation

Integrates DEC and DEC compatible equipment including systems, data communications, networking devices, printers, and disk and tape storage systems.

Nevada Western

Specializes in "corporate" data and voice network systems. Designs, manufactures, and distributes a complete family of interconnection devices.

Peritek Corporation

Peritek offers a full line of standard alpha and graphics display controllers, as well as DMA and floppy disk controllers to DEC OEMs. Peritek will be pleased to quote on custom and modified products as well.

Quadrex Computer Systems

Provides CIM consulting services, advanced supervisory control and data acquistion software, computer systems and networking selection, custom interface development, and system installation for process industries.

Sidlinger Computer Corporation

Integrates VAX based systems for law firms with all functions including time billing and expense, accounting, payroll, docket, database, and word processing.

Software Systems Technology, Inc.

S/S/T is a full service software and hardware supplier, specializing in networking, desktop publishing, office automation and communications, both domestically and internationally.

Solid Computer Power

Solid Computer Corporation markets 2-D and 3-D CAD/CAM workstations to the manufacturing, engineering, and architectural industry. A full service company, Solid Computer offers everything from installation and training to upgrades and support.

Suitable Solutions

Designs and manufactures DEC Rainbow enhancement products, including a 12MHz accelerator board, a 1MB memory board, a clock/calendar board, an IBM compatible flexible drive, and more.

Tecnimat

Specialists in the design, engineering, installation, and service of data communication components and systems, LAN systems, and cable systems, including twisted pair, fiber optics, and coax. Provides Ethernet products as components or integrated systems, specializing in premise distribution hardware, LAN/LAN, and LAN/WAN bridges, routers, and network management systems.

Thomas Business Systems, Inc.

Buyer and seller of surplus DEC computer hardware. Deals in systems and peripherals, memory products and terminals for VAX, MicroVAX and PDP-11 systems.

Total Tec Systems, Inc.

Specializes in system integration of DEC and DEC compatible equipment, including disk and tape drives, networking/communications, memory, controllers, terminals, printers, optical disks and enclosures.

Unicom Electric

Provides the Optimum Wiring Solution utilizing twisted pair technology for coaxial and RS232 voice and data wiring systems. Handles the integrated distribution for multi-story buildings, shared tenant services, campus environments, and local area networking.

Universal Computing

System integtators for over ten years for aerospace and military systems in the following areas: (1) high rate continuous data acquistion, (2) real time array and signal processing, (3) parallel processing architectures, (4) graphics and imaging, and (5) heterogeneous computer networks. The following system solutions have been provided per customer specification: (1) beamforming and tracking algorithms, (2) filtering and Fourier transform analysis, (3) noise and distortion analysis, (4) medical, landsat and infrared imaging, (5) image warping and classification, (6) real time video imaging, (7) synthetic and inverse synthetic aperture radar, and (8) local area networking and distributed processing. Universal Computing customers include: Boeing, Burroughs, GD, Hughes, JPL, Litton, Lockhead, Motorola, Rockwell, Schlumberger, TRW, the U. S. Navy and more.

Wilco International

Wilco, a multinational DEC OEM provides a full range of DEC services around the world, including both software and hardware maintenance, disaster recovery (DEC restart) and educational services.

A

3COM CORPORATION
3165 Kifer Road
Santa Clara, CA 95052
408 562-6400
•Communication Processors •Communication Servers •Switching Devices •Networking Interfaces

3M CORPORATION
8200 Highwood
Minneapolis, MN 55438
800 888-1889 • 612 736-3094
•Tape Drives

ABACUS CONTROLS, INC.
80 Readington Road
Somerville, NJ 08876
201 526-6010
•UPS Systems

ABEND ASSOCIATES, INC.
265 Winn Street
Suite 305
Burlington, MA 01803
617 273-5383
•Services

ABLE COMPUTER
2567A SE Main Street
Irvine, CA 92680
714 553-1188
•Modems •Communication Servers •Communication Controllers •Host Adapters •Switching Devices •Terminal Servers •Networking Interfaces •Printer Controllers

ACCEL TECHNOLOGIES, INC.
6825 Flanders Drive
San Diego, CA 92121
619 695-2000
•Database Processors

ACCU-TECH CABLE, INC.
645 Hembree Parkway
Roswell, GA 30076
800 221-4767 • 404 751-9473
•Wiring Systems and Cables

ACER COUNTERPOINT, INC.
2127 Ringwood Avenue
San Jose, CA 95131
408 434-0190
•X Window Terminals

ACS EQUIPMENT CORPORATION
26319 I 45 N.
The Woodlands, TX 77380
800 288-1846 • 713 363-9126
•Distributors & Resellers
•Leasing/Rental

ACTIVE MEMORY TECHNOLOGY
26802 Aston Street
Suite 103
Irvine, CA 92714
714 261-8901
•CPU Systems

ADAC CORPORATION
70 Tower Office Park
Woburn, MA 01801
617 935-6668
•CPU Systems •Specialized Systems •Terminal Servers •Analog-to-Digital Conversion •Analog I/O •Digital-to-Analog Conversion •Timing Devices •Special Function Boards

ADEPT DIGITAL SYSTEMS, INC.
2381 Zanker Road
#150
San Jose, CA 95131
408 435-9151
•Optical Subsystems •Special Function Boards

ADVANCED COMPUTER COMMUNICATIONS (ACC)
720 Santa Barbara Street
Santa Barbara, CA 93101
805 963-9431
•Communication Processors •Ethernet Devices •Networking Interfaces

ADVANCED DATA SUPPORT SYSTEMS
217 Mount Vernon Avenue
Bakersfield, CA 93307
805 327-2118
•Maintenance

ADVANCED ELECTRONICS DESIGN, INC. (AED)
440 Potrero Avenue
Sunnyvale, CA 94086-3632
800 538-1730 • 408 733-3555
•Graphics Terminals

ADVANCED MATRIX TECHNOLOGY, INC.
1157 Tourmaline Drive
Newbury Park, CA 91320
805 499-8741
•Dot Matrix Printers

ADVANCED TECHNOLOGIES INTERNATIONAL
355 Sinclair-Frontage
Milpitas, CA 95035
408 942-1780
•Laser Printers •Printer Controllers

ADVANCED TECHNOLOGY CENTER
5711 Slauson Avenue #2
Culver City, CA 90230
213 568-9119
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ADVANCED VISION RESEARCH
2201 Qume Drive
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408 434-1115
•Printer Controllers

AEON SYSTEMS, INC.
8401 Washington Place
Albuquerque, NM 87113
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90 Industrial Way
Wilmington, MA 01887
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101 Hammond Avenue
Fremont, CA 94539
415 770-1050
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ALGO, INC.
9198-C Red Branch Road
Columbia, MD 21045
301 730-7442
•Multiplexers

ALLIANT COMPUTER SYSTEMS COMPANY
One Monarch Drive
Littleton, MA 01460
508 486-1451
•Graphics Terminals

ALLIED TELESIS, INC.
627 National Avenue
Mountain View, CA 94043
415 964-2771
•Ethernet Devices •Monitoring & Test Devices

ALMAC ELECTRONICS
14360 SE Eastgate Way
Bellevue, WA 98007
206 643-9992
•System Integrators

ALMETEK INDUSTRIES INC.
2 Joy Drive
Hackettstown, NJ 07840
201 850-9700
•Supplies

ALPHA DATA, INC.
Mass Memory Technologists
20750 Marilla Street
Chatsworth, CA 91311-4488
818 882-6500
•Disk Drives

ALPHATRONIX
4900 Prospectus Drive
Suite 1000
Research Triangle Park, NC 27709
919 544-0001
•Optical Subsystems

ALPS AMERICA
3553 North First Street
San Jose, CA 95134
408 432-6000 • 800 828-2577
•Dot Matrix Printers

AMERICAN COMPUTER ENGINEERS
11175 Flintkote Avenue
San Diego, CA 92121
619 587-9002
•Maintenance

AMERICAN COMPUTER HARDWARE CORPORATION
2205 S. Wright Street
Santa Ana, CA 92705
714 549-2688
•Distributors & Resellers •Supplies

AMERICAN DATA SYSTEMS MARKETING
53 Elderwood Drive
Stoughton, MA 02072
617 341-0171
•Disk Subsystems •Tape Subsystems

AMERICAN DIGITAL SYSTEMS, INC.
490 Boston Post Road
Sudbury, MA 01776
508 443-7711
•Disk Drives •Disk Subsystems •Tape Drives

AMERICAN DIGITAL TECHNOLOGIES, INC.
23041 Avenida De La Carlota
Suite 210
Laguna Hills, CA 92653
714 583-2930
•Distributors & Resellers •Services

AMERICAN DIVERSIFIED CAPITAL CORPORATION
3200 Park Center Drive
Costa Mesa, CA 92626
800 426-5890 • 800 345-2265 (CA)
•Distributors & Resellers •Services
•Leasing/Rental

AMF GEOSPACE CORPORATION
7334 N. Gessner Street
Houston, TX 77040
713-666-1611
•Miscellaneous Printers

ANALOGIC CORPORATION
Computing Systems Group
8 Centennial Drive
Peabody, MA 01961
508 977-3000 • 800 237-1011
•Array Processors •Analog-to-Digital Conversion

ANASCO CORPORATION
42A Cherry Hill Drive
Danvers, MA 01923
508 777-8888
•UPS Systems

ANDATACO
10054 Mesa Ridge Court
Suite 102
San Diego, CA 92121
619 453-9191 • 800 334-9191
•Distributors & Resellers

ANDROMEDA SYSTEMS, INC.
9000 Eton Avenue
Canoga Park, CA 91304
818 709-7600
•Disk Controllers

ANTHEM TECHNOLOGY SYSTEMS
2157 O'Toole Avenue
Suite 100
San Jose, CA 95131
800 451-5441 • 408 943-6630
•Distributors & Resellers

APOLLO COMPUTER, INC.
330 Billerica Road
Chelmsford, MA 01824
508 256-6600
•Laser Printers

APPLE COMPUTER, INC.
20525 Mariani Avenue
MS: 36-Z
Cupertino, CA 95014
408 996-1010 • 408 252-2775
•Laser Printers

APPLIED CREATIVE TECHNOLOGY
8333 Douglas Avenue
#700
Dallas, TX 75225
214 739-4200 • 800 433-5373
•Supplies

APPLIED DATA COMMUNICATIONS
14272 Chambers Road
Tustin, CA 92680
714 731-9000
•Tape Drives •Supplies

APPLIED DIGITAL DATA SYSTEMS
A Subsidiary of NCR
100 Marcus Blvd.
Hauppauge, NY 11788
516 231-5400
•Display Terminals

APPLIED DIGITAL SYSTEMS
30 State Street
Fairport, NY 14450
716 377-7000
•Tape Subsystems

APPLIED INNOVATION, INC.
651 Lakeview Plaza Blvd.
Suite C
Columbus, OH 43085
614 846-9000 • 800 247-9482
•Switching Devices

APTEC COMPUTER SYSTEMS, INC.
P.O. Box 6750
Portland, OR 97228
503 626-9000 • 800 552-7832
•Specialized Systems •Disk Subsystems

AQUIDNECK SYSTEMS INTERNATIONAL
650 Ten Rod Road
North Kingstown, RI 02852
401 295-2691
•Disk Subsystems •Optical Subsystems

ARISTO GRAPHIC CORPORATION
5 Emery Avenue
Randolph, NJ 07869
201 366-7000
•Graphics Terminals

ARIX CORPORATION
821 Fox Lane
San Jose, CA 95131
408 922-8478
•CPU Systems

ARROW ELECTRONICS, INC.
25 Hub Drive
Melville, NY 11747
516 391-1300 • 516 391-1544
•Distributors & Resellers •System Integrators

ASTRONAUTICS CORPORATION OF AMERICA
4115 N. Teutonia Avenue
Milwaukee, WI 53209-6731
414 447-8200
•Multiplexers •Modems

AT&T INFORMATION SYSTEMS
100 Southgate Parkway
Morristown, NJ 07960
201 898-8000 •201 898-8229
•Display Terminals

AT&T MICROELECTRONICS
111 Speen Street
Point West Place
Framingham, MA 01701
508 626-3729
•UPS Systems

AT&T PARADYNE CORPORATION
8550 Ulmerton Road
P.O. Box 1347
Largo, FL 34294-1347
813 530-2000 • 800 482-3333
•Multiplexers •Modems •Monitoring & Test Devices

ATLAS ENERGY SYSTEMS
16872 Milliken Avenue
Irvine, CA 92714
714 863-0900
•UPS Systems

AUGAT, INC.
Interconnection Systems Group
40 Perry Avenue
Attleboro, MA 02703
617 222-2202
•Special Function Boards

AVALON COMPUTER SYSTEMS
425 E. Colorado Blvd.
#710
Glendale, CA 91205
818 247-2216
•Special Function Boards

AVIV CORPORATION
26 Cummings Park
Woburn, MA 01801
617 933-1165
•Switching Devices •Disk Subsystems •Optical Drives •Optical Subsystems •Disk Controllers •Tape Subsystems •Tape Controllers

AXONIX CORPORATION
2257 S 1100 E
Salt Lake City, UT 84106
801 466-9797
•Dot Matrix Printers

AYDIN CONTROLS
414 Commerce Drive
Ft. Washington, PA 19034
215 542-7800
•Graphics Terminals

B

BARCOMP, INC.
18226 W. McDurmott Street
Suite D
Irvine, CA 92714
714 863-0901
•Bar Code Readers

BEAVER ELECTRONIC LABORATORY, INC.
P.O. Box 202
Kingston, MA 02364
617 585-5666
•UPS Systems

BECKMAN INDUSTRIAL
630 Puente Street
Brea, CA 92621
714 671-4822
•Monitoring & Test Devices

BEHLMAN ENGINEERING
1142 Mark Avenue
Carpinteria, CA 93013
805 684-8311
•UPS Systems

BELDEN WIRE AND CABLE
P.O. Box 1980
Richmond, IN 47375
317 983-5200
•Wiring Systems and Cables

BELKIN COMPONENTS
14550 S. Main Street
P.O. Box 3978
Gardena, CA 90247-7540
213 515-7585
800 223-5546
•Wiring Systems and Cables

BELL & HOWELL COMPANY
Document Management Products Division
6800 McCormick Road
Chicago, IL 60645-2797
312 675-7600
•Graphics Terminals

BELL ATLANTIC DATA
8400 Normandale Lake
Suite 1600
Bloomington, MN 55437
612 896-1400
•Distributors & Resellers

BEST POWER TECHNOLOGY, INC.
P.O. Box 280
Route 1
Necedah, WI 54646
800 356-5794 • 608 565-7200
•UPS Systems

BGL TECHNOLOGY CORPORATION
438 Constitution Avenue
Camarillo, CA 93010
805 987-7305
•Laser Printers

BICC DATA NETWORKS, INC.
1800 West Park Drive
Westborough, MA 01581
508 898-2422
•Multiplexers •Ethernet Devices

BISCOM, INC.
85 Rangeway Road
Billerica, MA 01821
508 670-5521
•Specialized Systems

BIT 3 COMPUTER CORPORATION
8120 Penn Avenue S
Minneapolis, MI 55431
612 881-6955
•Host Adapters

BIZCOMP CORPORATION
532 Mercury Drive
Sunnyvale, CA 94086
408 733-7800
•Modems

BLACK BOX CORPORATION
Mayview Road at Park Drive
Lawrence, PA 15055
412 746-5500
412 746-6685
•Multiplexers •Modems •Terminal Servers •Ethernet Devices •Wiring Systems and Cables

BO-SHERREL COMPANY, INC.
36133 Niles Blvd.
Fremont, CA 94536
415 792-0354
•Multiplexers •Modems

BOMARA
Three Courthouse Lane
Chelmsford, MA 01824
508 452-2299
•Distributors & Resellers

BROOKVALE ASSOCIATES
265 Oser Avenue
Hauppauge, NY 11788
516 273-7777
•Distributors & Resellers •Leasing/Rental
Additonal Sales Office:
1495 NW Gilman Blvd.
Issaquah, WA 98027
206 392-9878

BRUNING COMPUTER GRAPHICS
777 Arnold Drive
Martinez, CA 94553
415 372-7568
•Pen Plotters

BTI
45-120 San Pablo
Suite 2F
Palm Desert, CA 92260
619 341-7332
619 345-6244
•Maintenance

BULL PERIPHERALS CORPORATION
303 Wyman Street
Waltham, MA 02154
617 890-5200
•Magnetography Printers

BURR-BROWN
P.O. Box 11400
Tucson, AZ 85734
602 746-1111
•Display Terminals

BUSINESS SECURITY SYSTEMS
25 East Frisco
Suite 200
St. Louis, MO 63119
314 962-4446
•Security Systems

C

C & C TECHNOLOGY, INC.
245 W Roosevelt Road
Building 9 Unit 60
West Chicago, IL 60185
312 231-0015
•Networking Interfaces

C. D. SMITH & ASSOCIATES, INC.
12605 East Freeway
Houston, TX 77015
713 451-3112
•Distributors & Resellers

C. H. SYSTEMS, INC.
13914 Bora Bora Way
Marina del Rey, CA 90292
213 305-9341
•Security Systems

C.ITOH ELECTRONICS, INC.
2505 McCabe Way
Irvine, CA 92714
714 757-4485 • 714 660-1421
•Graphics Terminals •Display Terminals •Laser Printers •Dot Matrix Printers •Electrostatic Plotters •Ion Deposition Printers

CABCO INC.
140 Arona Road
Irwin, PA 15642
412 864-3400
•Wiring Systems and Cables

CABLE MANAGEMENT SYSTEMS, INC.
3100 W. Warner Avenue #11
Santa Ana, CA 92704-5331
714 662-0664
•Wiring Systems and Cables

CABLETRON SYSTEMS, INC.
10 Main Street
P.O. Box 6257
E. Rochester, NH 03867
603 332-9400
•Ethernet Devices •Monitoring & Test Devices •Services

CALCOMP, INC.
A Lockheed Company
2411 W. La Palma Avenue
P.O. Box 3250
Anaheim, CA 92801
714 821-2100
•Workstations •Electrostatic Plotters •Pen Plotters •Thermal Transfer Printers

CALIFORNIA BOARDS
4030 Spencer Street
Torrance, CA 90503
213 542-3000
•Distributors & Resellers

CALTRONIX
1020 Lehigh Station
Henrietta, NY 14467
716 359-3780
•Maintenance

CAMBRIDGE AUTOMATION
119 Braintree Street
Boston, MA 02134
617 254-6666
•System Integrators

CAMINTONN CORPORATION
2121 Alton Avenue
Irvine, CA 92714-4992
714 553-0247
•Multiplexers •Communication Controllers •Memory Boards •Laser Printers •Graphics Controllers •Special Function Boards

CANOGA-PERKINS
21012 Lassen Street
Chatsworth, CA 91311-4241
818 718-6300
•Multiplexers •Modems •Ethernet Devices •Monitoring & Test Devices

CANON USA, INC.
One Canon Plaza
Lake Success, NY 11042
516 488-6700
•Laser Printers

CARLSON COMPUTER INTERNATIONAL
3534 E. Sunshine Hwy
Springfield, MO 65804
417 887-1907 • 800 548-7073
•Distributors & Resellers

CARN INDUSTRIES, LTD.
15 Hale Street
Haverhill, MA 01830
508 373-0026
•Maintenance

CASAT TECHNOLOGY, INC.
10 Northern Blvd. Unit 5
Amherst, MA 03031
603 880-1833
•Ethernet Devices

CASE/DATATEL
55 Carnegie Plaza
Cherry Hill, NJ 08003
800 424-4451
•Multiplexers •Modems •X.25 PAD Processors •Monitoring & Test Devices

CENTURY COMPUTER MARKETING
4755 Alla Road
Marina Del Rey, CA 90292
213 827-0999
•Distributors & Resellers •Maintenance

CENTURY DATA SYSTEMS
1270 N. Kraemer Blvd.
Anaheim, CA 92806
714 632-7500
•Disk Drives

CERMETEK MICROELECTRONICS
1308 Borregas Avenue
Sunnyvale, CA 94088
800 862-6271 • 408 752-5000
•Modems •Graphics Terminals

CHI CORPORATION
26055 Emery Road
Cleveland, OH 44128
216 831-2622
•Display Terminals

CHIPCOM CORPORATION
195 Bear Hill Road
Waltham, MA 02154
617 890-6844
•Ethernet Devices

CHRISLIN INDUSTRIES, INC.
31332 Via Colinas
Westlake Village, CA 91362
818 991-2254
•Memory Boards

CHROMATICS
2558 Mountain Industrial Blvd.
Tucker, GA 30084-3893
404 493-7000
•Graphics Terminals

CINCINNATI BELL SUPPLY
1022 Kenner Street
Cincinnati, OH 45214
513 579-8200
•Distributors & Resellers •Maintenance •Leasing/Rental

CIPHER DATA PRODUCTS, INC.
9715 Business Park Avenue
San Diego, CA 92131
619 693-7084
•Tape Drives

CISCO SYSTEMS, INC.
1350 Willow Road
P.O. Box 475
Menlo Park, CA 94026
800 553-NETS • 415 326-1941
•Communication Processors •Terminal Servers •Ethernet Devices •Networking Interfaces

CITIZEN AMERICA CORPORATION
2401 Colorado Avenue
Santa Monica, CA 90404
213 453-0614
•Dot Matrix Printers

CLARY CORPORATION
320 W. Clary Avenue
San Gabriel, CA 91776-1306
818 287-6111
•UPS Systems

CLAYTON COMPUTER SYSTEMS
271-I Opportunity Street
Sacramento, CA 95838
916 925-5727
•Distributors & Resellers •Leasing/Rental •System Integrators

CLEARPOINT RESEARCH CORPORATION
35 Parkwood Drive
Elmwood Industrial Park
Hopkinton, MA 01748
800 253-2778 • 508 435-2000
•Memory Boards

CMD TECHNOLOGY, INC.
3851 South Main Street
Santa Ana, CA 92707
714 549-4422
800 426-3832
•Host Adapters •Disk Subsystems •Disk Controllers

CMS ENHANCEMENTS, INC.
1372 Valencia Avenue
Tustin, CA 92680
714 259-9555
•Disk Subsystems •Disk Controllers •Tape Subsystems •Tape Controllers

COASTCOM
2312 Stanwell Drive
P.O. Box 27068
Concord, CA 94527
415 825-7500
•Multiplexers

CODAR TECHNOLOGY, INC.
Computer Products Division
1500 Kansas Avenue
Bldg. 2E
Longmont, CO 80501
303 776-0472
•Specialized Systems •Disk Subsystems •Tape Subsystems

CODEX CORPORATION
Maresfield Farm
7 Blue Hill River Road
Canton, MA 02021-1097
617 364-2000
617 364-5662
•Specialized Systems •Multiplexers •Modems

CODONICS INC.
18001 Englewood Drive
Middlesburg Heights, OH 44130
216 243-1198
•Graphics Terminals •Hard Copy Units

COLORGRAPHIC COMMUNICATIONS CORPORATION
5388 New Peachtree Road
Atlanta, GA 30341
404 455-3921
•Workstations •Graphics Terminals

COMBUSTION ENGINEERING, INC.
Information Management Services
900 Long Ridge Road
P.O. Box 9308
Stamford, CT 06904
203 285-4782
•System Integrators

COMDISCO DISASTER RECOVERY SERVICES
6400 Shafer Court
Rosemont, IL 60018
312 698-3000
•Services

COMM/SCOPE, INC.
1375 Lenoir-Rhyne Blvd.
Hickory, NC 28602
800 982-1708
704 324-2200
•Wiring Systems and Cables

COMMNETICS, INC.
148 Linden Street S.
Wellesley, MA 02181
617 237-5860
•Communication Processors

COMMUNICATION MACHINERY CORPORATION (CMC)
125 Cremona Drive
Santa Barbara, CA 93117
805 968-4262
•Communication Controllers •Terminal Servers •Ethernet Devices

COMMUNICATIONS TEST DESIGN, INC.
Goshen Corporate Par
1373 Enterprise Drive
West Chester, PA 19380
800 223-3910 •215 436-5203
•Maintenance

COMPU-CART
107 N Roma Avenue
Tampa, FL 33601-2095
800 237-9024 • 813 251-2431
•Supplies

COMPU-SHARE BUSINESS MANAGEMENT SYSTEMS
5214 68th Street
Lubbock, TX 79424
800 356-6568 • 806 794-1400
•VARs

COMPUREX SYSTEMS INC.
P.O. Box 117
75 Tosa Drive
Stoughton, MA 02072
800 426-5499 • 617 344-8600
•Distributors & Resellers

COMPUTER ACCESSORIES CORPORATION
6610 Nancy Ridge Drive
San Diego, CA 92121
619 457-5500
•UPS Systems •Power Conditioners

COMPUTER CLEARING HOUSE
246 Commerce Drive
Rochester, NY 14623
716 334-0550
•Distributors & Resellers •System Integrators

COMPUTER DATACO
2020 Charlotte
Kansas City, MO 64108
800 821-5003
816 221-1212
•Distributors & Resellers

COMPUTER DESIGN & APPLICATIONS, INC.
411 Waverly Oaks Road
Waltham, MA 02154
617 647-1900
•Database Processors •Graphics Terminals

COMPUTER EXPRESSIONS
3833 Chestnut Street
Philadelphia, PA 19104
215 222-4400
•Supplies

COMPUTER LOGISTICS INC.
3401 E. La Palma Avenue
Anaheim, CA 92806
714 630-6435
•System Integrators

COMPUTER MANAGEMENT
20 Waterside Plaza
New York, NY 10010
212 683-0606
•Distributors & Resellers

COMPUTER METHODS CORPORATION
525 Route 73 South
Suite 300
Marlton, NJ 08053
609 596-4360
•Services

COMPUTER POWER PRODUCTS
227 E. Compton Blvd.
Gardena, CA 90248
213 323-1231 • 800 421-6102
•UPS Systems •Power Distribution Controllers

COMPUTER POWER, INC.
124 W Main Street
High Bridge, NJ 08829
800 526-5088 •201 638-8000
•UPS Systems •Power Conditioners

COMPUTER PRODUCTS, INC.
Measurement & Control Division
2900 Gateway Drive
Pompano Beach, FL 33069
305 974-5500
•Specialized Systems •Multiplexers •Modems •Terminal Servers •Printer Controllers •Timing Devices

COMPUTER TRANSPORTATION SERVICES
107 Main Street
Breda, IA 51436
800 831-0030 • 712 673-2354
•Services

COMPUTER UPGRADE CORPORATION
2910 E. La Palma Avenue
Anaheim, CA 92806
714 630-3457
•Disk Subsystems •Optical Drives •Optical Subsystems

COMPUTROL
239 Ethan Allen High
Ridgefield, CT 06877
203 431-2000
•Modems

COMSPEC, INC.
2313 West Belt North
Houston, TX 77043
713 461-4487
•Modems

CONSTANTINE ENGINEERING LABS
70 Constantine Drive
Mahwah, NJ 07430
201 327-1123
•Miscellaneous Printers

CONTEMPORARY CYBERNETICS GROUP, INC.
11830 Canon Blvd.
Newport News, VA 23606
804 873-0900
•Tape Subsystems •Distributors & Resellers

CONTINENTAL RESOURCES
175 Middlesex Turnpike
Bedford, MA 017301469
800 343-4688
617 275-0850
•Distributors & Resellers

CONTINUUM CONSULTING, LTD.
19125 N. Creek Parkway
Bothell, WA 98011
206 485-4357
•Services

CONTROL CABLE
7261 Ambassador Road
Baltimore, MD 21207
301 298-4411
•Distributors & Resellers

CONTROL DATA CORPORATION
8100 34th Avenue
Bloomington, MN 55440
612 851-4114
•Services •Maintenance

CONTROL MODULE, INC.
380 Enfield Street
Enfield, CT 06082
203 745-2433
•Display Terminals •Bar Code Readers

CONTROLLED POWER COMPANY
1955 Stephenson Highway
Troy, MI 48083
800 521-4792
•UPS Systems •Power Distribution Controllers •Power Conditioners

CONVEX COMPUTER CORPORATION
701 North Plano Road
Richardson, TX 75081
214 952-0200
•CPU Systems

COPTECH
36 Commerce Way
Woburn, MA 01801
617 935-2679
•Services

COSAG COMPUTER SYSTEMS
375 Park Ave, Suite 31
New York, NY 10152
800 243-4267 •212 310-9400
•Leasing/Rental

COSMIC ENTERPRISES, INC.
84 South Street
Hopkinton, MA 01748
508 435-6967
•Maintenance

CPU OPTIONS
1840 Berkshire Lane
Plymouth, MN 55441
800 777-6567 •612 557-9500
•System Integrators

CRADEN PERIPHERALS CORPORATION
7860 Airport Highway
Pennsauken, NJ 08109
609 488-0700
•Dot Matrix Printers

CRAIG DATA CABLE
652 Glenbrook Road
Stamford, CT 06906
800 243-5760 • 203 356-9315
•Distributors & Resellers

CRISP AUTOMATION
5160 Blazer Memorial
Dublin, OH 43017
614 764-4200
•Specialized Systems

CROSSCOMM CORPORATION
P.O. Box 699
133 E. Main Street
Marlborough, MA 01752
508 481-4060
•Ethernet Devices

CS ELECTRONICS
1342 Bell Avenue
Tustin, CA 92680
714 259-9100
•Wiring Systems and Cables

CSPI
40 Linnell Circle
Billerica, MA 01821
617 272-6020 • 800 325-3110
•Array Processors

CTS CORPORATION
Systems & DATACOMM Division
6900 Shady Oak Road
Eden Prairie, MN 55344
800 328-6104 • 612 941-9100
•Modems

CUESTA SYSTEMS CORPORATION
3440 Roberto Court
San Luis Obispo, CA 93401
805 541-4160
•UPS Systems

CUSTOM CABLE INDUSTRIES
3221 Cherry Palm Drive
Tampa, FL 33619
813 623-2232 • 800 446-2232
•Wiring Systems and Cables

CXR TELCOM CORPORATION
521 Charcot Avenue
San Jose, CA 95131
408 435-8520
•Modems

CYBERCHRON CORPORATION
Computer & Electronics Systems
3720 Farragut Avenue
Kensington, MD 20895
301 946-6488
•Specialized Systems

CYBEREX, INC.
7171 Industrial Park
Mentor, OH 44060
800 631-1236 • 216 946-1783
•UPS Systems

CYBERNEX LTD.
Division of Zavitiz Technology, Inc.
2373 Stevenage Drive
Ottowa, Ontario, Canada K1G 3W1
613 738-9301
•Graphics Terminals •Display Terminals

CYCOM SYSTEMS LIMITED
1A-3500 Pharmacy Avenue
Scarborough, Ontario, Canada
M1W 3P6
800 268-3171 • 416 494-5040
•Distributors & Resellers

CYGNET SYSTEMS, INC.
601 W. California Avenue
Sunnyvale, CA 94086
408 773-0770
•Optical Subsystems

D

DAISY DATA, INC.
333 S. Enola Drive
Enola, PA 17025-2897
717 732-8800
•Graphics Terminals

DAMAC PRODUCTS, INC.
10410-4 Pioneer Blvd.
Sante Fe Springs, CA 90670
213 946-0881
•Enclosures

DATA 3 COMPUTER CORPORATION
8400 Normandale Lake Blvd.
Bloomington, MN 55437
612 896-1400
•Distributors & Resellers

DATA CLEAN CORPORATION
5602 Research Drive Suite B
Huntington Beach, CA 92649
800 553-3755
•Services •Supplies

DATA COM SOUTH
1000 N. Magnolia Street
Orlando, FL 32803
407 425-1163
•Distributors & Resellers

DATA RENTALS & SALES
6060 Sepulveda Blvd.
Van Nuys, CA 91411-2501
818 787-2100
•Distributors & Resellers •Leasing/Rental

DATA SYSTEMS HARDWARE
103 F-1 Carpenter Drive
Sterling, VA 22170
703 478-0080
•Laser Printers •Band Printers •Ion Deposition Printers

DATA TERMINAL MART
6270 Dorman Road
Mississauga, Ontario,
Canada L4V 1G9
416 677-0184
•Laser Printers •Daisy Wheel Printers

DATA TRANSLATION, INC.
100 Locke Drive
Marlboro, MA 01752
508 481-3700
•Image Processors •Analog I/O •Digital I/O •Timing Devices

DATABILITY SOFTWARE SYSTEMS, INC.
322 Eighth Avenue
New York, NY 10001
800 342-537 • 212 807-7800
•Terminal Servers

DATACOM TECHNOLOGIES, INC.
11001 31st Place W.
Everett, WA 98204
206 355-0590
•Modems •Switching Devices
•Monitoring & Test Devices

DATACOPY CORPORATION
1215 Terra Bella Avenue
Mountain View, CA 94043
800 556-1234 • 800 441-2345 (CA)
•Image Processors

DATACOVER INC.
675 South Saginaw Street
Suite 200
Pontiac, MI 48053-4610
800 445-8296 • 313 332-7997
•Supplies

DATACUBE, INC.
4 Dearborn Road
Peabody, MA 01960
508 535-6644
•Image Processors

DATAGRAPHIX
P.O. Box 82449
San Diego, CA 92138-9948
619 291-9960
•Ion Deposition Printers

DATALEASE
1061 S. Melrose Avenue
Placentia, CA 92670
714 632-6986
•Distributors & Resellers •Leasing/Rental •System Integrators

DATAMEDIA CORPORATION
11 Trafalgar Square
Nashua, NH 03063
800 DMC-INFO • 603 886-1570
•Workstations

DATAPRODUCTS CORPORATION
6200 Canoga Avenue
P.O. Box 746
Woodland Hills, CA 91365-0746
818 887-8000
•Laser Printers •Band Printers •Dot Matrix Printers •Miscellaneous Printers

DATARAM CORPORATION
Digital Products
P.O. Box 7528
Princeton, NJ 08543-7528
609 799-0071
•Specialized Systems •Memory Boards •Solid State Storage

DATASHIELD
A Division of Solidstate Controls
269 Mount Hermon Road
Scotts Valley, CA 95066
408 438-0946
•UPS Systems

DATASOUTH COMPUTER CORPORATION
4216 Stuart Andrew B
Charlotte, NC 28224
704 523-8500 • 800 222-4528
•Dot Matrix Printers

DATASTREAM NETWORKING
2520 Mission College
Santa Clara, CA 95050
408 986-8022
•Display Terminals

DATAWARE SYSTEMS LEASE
30 Bay Street
Staten Island, NY 10301
800 221-6318 • 718 447-4911
•Leasing/Rental

DATAWATCH CORPORATION
317 New Boston Street
Wilmington, MA 01887
617 932-0550
•Display Terminals

DAVID SYSTEMS, INC.
701 East Evelyn Avenue
Sunnyvale, CA 94086
408 720-8000
•Ethernet Devices

DAVOX CORPORATION
4 Federal Street
Billerica, MA 01821
508 667-4455 • 800 343-1152
•Graphics Terminals •Display Terminals

DCB, INC.
807 Pioneer Street
Champaign, IL 61820
800 637-1127
•Multiplexers •Modems

DCD
121 E. Commercial Avenue
Suite A
Wood Dale, IL 60191
312 766-INFO
•Distributors & Resellers

DELPHAX SYSTEMS
35 Pacella Park Drive
Randolph, MA 02368
617 961-2312
•Ion Deposition Printers

DELTA DATA SYSTEMS CORPORATION
8310 Guilford Road
Columbia, MD 21046
301 290-6400
•Display Terminals

DELTA Z CORPORATION
60 E Hanover Avenue
Morris Plains, NJ 07950
201 993-9641
•Distributors & Resellers

DELTRON, INC.
P.O. Box 1369
Wissahickon Avenue
North Wales, PA 19454
215 699-9261
•UPS Systems •Power Distribution Controllers

DEMCO INC.
4810 Forest Run Road
Box 7488
Madison, WI 53707
608 241-1201
•Distributors & Resellers

DEREX INC.
7716 Wiles Road
Coral Springs, Fl 33067
305 753-0840
•Laser Printers •Band Printers •Dot Matrix Printers •Ion Deposition Printers

DESIGN ANALYSIS ASSOCIATES
75 West 100 South
Logan, UT 84321
801 753-2212
•Networking Interfaces •IEEE-488 Interfaces

DEX CORPORATION
1061 S. Melrose Avenue
Placentia, CA 92670
714 632-1841
•Distributors & Resellers •System Integrators

DIAN MICRO SYSTEMS, LTD.
Mersey House, Batter Road
Heaton Mersey Stockport,
Cheshire, England SK4 3EA
061 442-9788
•Analog I/O

DICONIX, INC.
Division of Eastman Kodak
3100 Research Blvd.
Dayton, OH 45420
513 259-3100
•Laser Printers

DIGI-DATA
8580 Dorsey Run Road
Jessup, MD 20794
301 498-0200
•Tape Drives •Tape Subsystems

DIGITAL ACCESSORIES, INC.
18 Elizabeth Street
W Conshohocken, PA 19428
215 828-6090
•VARs

DIGITAL ASSOCIATES CORPORATION
95 Burr Court
Bridgeport, CT 06605
203 366-2261
•Printer Controllers

DIGITAL BASICS, INC.
689 South Canterbury
Shakopee, MN 55379
612 496-2550 • 800 522-1742
•Distributors & Resellers •System Integrators

DIGITAL COMMUNICATIONS ASSOCIATION
1000 Alderman Drive
Alpharetta, GA 30201
404 442-4000 • 800 241-IRMA
•Multiplexers •Modems •Communication Processors

DIGITAL COMPUTER EXCHANGE, INC.
2487 Industrial Parkway West
Hayward, CA 94545
415 887-3100
•Distributors & Resellers

DIGITAL COMPUTER RESALE
600 Kenrick Suite C-22
Houston, TX 77060
713 445-0082
•Distributors & Resellers

DIGITAL CONSULTANTS
2863 Teller Road
Suite 114
Newbury Park, CA 91320
805 498-4577
•Switching Devices

DIGITAL DATA SYSTEMS, INC.
1551 NW 65 Avenue
Fort Lauderdale, FL 33313
305 792-3290
•Memory Boards •Special Function Boards

DIGITAL DEALERS ASSOCIATION (DDA)
107 S. Main Street
Suite 202
Chelsea, MI 48118
313 475-8333
•Services

DIGITAL ELECTRONICS CORPORATION
31047 Genstar Road
Hayward, CA 94544-7831
415 471-4700
•Graphics Terminals

DIGITAL INSTRUMENTS CORPORATION
P.O. Box 9901
Newark, DE 19714-9901
800 222-IMAX • 215 255-4149
•Image Processors •Memory Boards •Solid State Storage •Graphics Controllers

DIGITAL LINK CORPORATION
133 Caspian Court
Sunnyvale, CA 94089-9813
408 745-6200
•Networking Interfaces

DIGITAL PATHWAYS, INC.
201 Ravendale Drive
Mountain View, CA 94043
415 964-0707
•Security Systems

DIGITAL SOLUTIONS, INC.
3083 Gold Canal Drive S
Rancho Cordova, CA 95670
916 638-5606
•Distributors & Resellers •Maintenance •Leasing/Rental

DIGITAL TECHNOLOGY, INC.
2300 Edwin C Moses
Dayton, OH 45408
513 443-0412
•Special Function Boards

DILOG
1555 South Sinclair
Anaheim, CA 92606
714 937-5700
•Communication Servers •Communication Controllers •Disk Subsystems •Disk Controllers •Tape Subsystems •Tape Controllers •Tape Couplers

DIRECT SERVICE AND REPAIR
460 Aldo Avenue
Santa Clara, CA 95054
408 980-1414
•Display Terminals

DISCOPYLABS
2610-B N First Street
San Jose, CA 95134
408 433-0900
•Services

DISK INTERCHANGE SERVICE COMPANY
2 Park Drive
Westford, MA 01886
508 692-0050
•Services

DOUGLAS COMPUTER INTERNATIONAL
P.O. Box 151464
Salt Lake City, UT 84115
801 487-5811
•Distributors & Resellers

DOW JONES SERVICE
1590 S. Sinclair Street
Anaheim, CA 92806
714 385-8975 • 800 532-7373
•Maintenance

DPS
2327 Park Avenue
Cincinnati, OH 45206
513 961-0776
•Distributors & Resellers

DSP TECHNOLOGY, INC.
48500 Kato Road
Fremont, CA 94538-7338
415 657-7555
•Special Function Boards

DYNA FIVE CORPORATION
173 Freedom Avenue
Anaheim, CA 92801
714 525-8795
•Communication Controllers •Printer Controllers •Enclosures

DYNAMIC SYSTEMS NORTHWEST, INC.
8223 44th Avenue W
Mukilteo, WA 98275
205 745-5311
•Distributors & Resellers •Wiring Systems and Cables

DYNSERVICE NETWORK
1875 Whipple Road
Hayward, CA 94544
415 732-3080
•Maintenance

E

EAKINS ASSOCIATES, INC.
67 East Evelyn Avenue
Mountain View, CA 94041
415 969-5109
•Distributors & Resellers •System Integrators

EASTMAN KODAK
Copy Products Division
343 State Street
Rochester, NY 14650
800 255-3434 • 716 724-1336
•Ink Jet Printers •Miscellaneous Printers

EASTMARK, INC.
240 Smith Street
Lowell, MA 01851
508 453-9150
•Graphics Terminals

EL CAMINO RESOURCES, LTD.
16671 Milliken Avenue
Irvine, CA 92714
800 367-3646 • 714 250-8991
•Distributors & Resellers •Leasing/Rental

ELECTRO MECHANICAL SYSTEMS
801 W. Bradley Avenue
Champaign, IL 61820
217 359-7125
•Display Terminals

ELECTRODATA, INC.
23020 Miles Road
Bedford Heights, OH 44128
216 663-3333
•Monitoring & Test Devices

ELECTROHOME, LTD.
809 Wellington Street
Kitchener, Ontario,
Canada N2G 4J6
519 744-7111
•Graphics Terminals •Display Terminals

ELECTRONIC SERVICE SPECIALISTS
N92 W14612 Anthony Avenue
Menomonee Falls, WI 53051
414 255-4634
•Maintenance

ELGAR CORPORATION
9250 Brown Deer Road
San Diego, CA 92121
800 854-2213 • 619 450-0085
•UPS Systems

ELTEC, INC.
3001 Redhill Avenue
Costa Mesa, CA 92626
714 241-1331
•UPS Systems •Power Distribution Controllers •Distributors & Resellers

ELXSI
2334 Lundy Place
San Jose, CA 95131
408 942-0900
•CPU Systems

EMC CORPORATION
171 South Street
Hopkinton, MA 01748
508 435-1000 • 800 222 EMC2
•Disk Drives •Optical Subsystems •Memory Boards

EMERSON COMPUTER POWER
3300 S. Standard Street
Santa Ana, CA 92702
714 545-5581 • 714 641-5248
•UPS Systems •Power Conditioners

EMULEX CORPORATION
3545 Harbor Blvd
Costa Mesa, CA 92626
714 662-5600 • 800 EMU-LEX3
•Multiplexers •Host Adapters •Disk Subsystems •Optical Subsystems •Disk Controllers •Tape Subsystems •Tape Couplers

ENCORE COMPUTER CORPORATION
257 Cedar Hill Street
Marlborough, MA 01752
800 336-2673 • 508 460-0500
•CPU Systems •Terminal Servers •Graphics Terminals

EPOCH SYSTEMS, INC.
313 Boston Post Road
Marlborough, MA 01752
508 481-3717
•Disk Subsystems

EPSON AMERICA, INC.
Computer Products Division
2780 Lonita Blvd.
Torrance, CA 90505
213 539-9140
•Dot Matrix Printers

EQUINOX SYSTEMS
14260 SW 119th Avenue
Miami, FL 33186
800 328-2729 • 305 255-3500
•Multiplexers

ESPRIT SYSTEMS, INC.
8444 Delray Avenue
Sunnyvale, CA 94000
408 746-0825
•Display Terminals

ESSENTIAL RESOURCES, INC.
ERI Training
462 Broadway
New York, NY 10013
212 334-1240
•Services

EVANS & SUTHERLAND
540 Arapeen Drive
P.O. Box 8050
Salt Lake City, UT 84108
801 582-5847
•Workstations

EVEREST ELECTRONIC EQUIPMENT
1800-G Macleod Drive
Lawrenceville, GA 30243
404 995-8688
•Power Distribution Controllers •Power Conditioners •Enclosures

EXABYTE CORPORATION
1748 38th Street
Boulder, CO 80301
303 442-4333
•Tape Subsystems

EXCELAN, INC.
2180 Fortune Drive
San Jose, CA 95131
408 434-2300
•Ethernet Devices

EXIDE ELECTRONICS
3301 Spring Forest Road
Raleigh, NC 27604
919 872-3020 • 800 554-3448
•UPS Systems

EXPERDATA
10301 Toledo Avenue S
Bloomington, MN 55437
612 831-2122
•Monitoring & Test Devices

EXSYS STORAGE SYSTEMS
1340 Tully Road
#301
San Jose, CA 95122
408 292-0343
•Disk Drives •Disk Subsystems

F

FACIT INC.
400 Commercial Street
P.O. Box 9540
Manchester, NH 03108-9540
603 647-2700
•Laser Printers •Dot Matrix Printers

FAIRCHILD DATA CORPORATION
350 N Hayden Road
Scottsdale, AZ 85257
602 949-1155
•Modems
Additional Sales Office:
12020 Sunrise Valley Drive
Suite 141
Reston, VA 22091
703 391-2725

FALCO DATA PRODUCTS
1294 Hammerwood Avenue
Sunnyvale, CA 94089
800 835-2648 • 800 538-5383 (CA)
•Graphics Terminals •Display Terminals •X Window Terminals

FARGO ELECTRONICS, INC.
7690 Golden Triangle Drive
Eden Praire, MN 55344
612 941-9470
•Display Terminals •Thermal Transfer Printers

FASTCOMM DATA CORPORATION
12347-E Sunrise Valley Drive
Reston, VA 22091
703 620-3900
•Modems

FFT SYSTEMS, LTD.
2 Venture Road
Chilworth Research Center
Southampton, Hants,
England SO1 7NP
0703 760611
•Specialized Systems

FIBERCOM, INC.
P.O. Box 11966
Roanoke, VA 24022
703 342-6700
•Modems •Ethernet Devices

FIBERMUX CORPORATION
9428 Eton Avenue
Chatsworth, CA 91311
818 709-6000
•Multiplexers •Ethernet Devices

FIRST COMPUTER CORPORATION
8230 S Madison Street
Burr Ridge, IL 60521
312 920-1050 • 800 292-9000
•Disk Drives •Tape Drives •Band Printers

FLIPTRACK LEARNING SYSTEMS
999 N Main Street
Glen Ellyn, IL 60137
312 790-1117 • 800 222-3547
•Services

FOREST COMPUTER
1749 Hamilton Road
Okemos, MI 48864
517 349-4700
•Networking Interfaces

FORNEY INTERNATIONAL, INC.
P.O. Box 189
Addison, TX 75001
214 458-6100
•Communication Controllers

FPS COMPUTING
3601 SW Murray Blvd.
Beaverton, OR 97005-2399
800 635-0938 • 800 547-1860
•CPU Systems •Specialized Systems •Array Processors •Disk Subsystems •Solid State Storage

FUJITSU AMERICA, INC.
Computer Products Group
3055 Orchard Drive
San Jose, CA 95134
408 432-1300
•Disk Drives

G

GANDALF DATA, INC.
1020 S Noel Avenue
Wheeling, IL 60090
800 722-9638 • 312 541-6060
•Multiplexers •Modems •Monitoring & Test Devices

GE CALMA COMPANY
501 Sycamore Drive
Milipitas, CA 95950
408 434-4000 • 800 GE-Calma
•Specialized Systems •Workstations •Graphics Terminals

GE COMPUTER SERVICE
6875 Jimmy Carter Blvd.
Norcross, GA 30071
404 246-6200
•Maintenance •Leasing/Rental

GE COMPUTER SUPPLIES
2825 C Pacific Drive
Norcross, GA 30071
800 437-2537
•Supplies

GEN TERM CORPORATION
1304A Logan Avenue
Costa Mesa, CA 92626
714 662-0630
•Display Terminals

GEN/COMP, INC.
6 Algonquin Road
Canton, MA 02021
617 828-2008
•Multiplexers •Communication Processors •Terminal Servers •Printer Controllers •Special Function Boards

GENERAL DATACOMM INDUSTRIES
Rt. 63
Middlebury, CT 06762-1299
203 574-1118
•Modems

GENERAL INSTRUMENT
1375 Lenoir-Rhyne Blvd.
P.O. Box 1729
Hickory, NC 28602
704 324-2200 • 800 982-1708
•Wiring Systems and Cables

GENERAL POWER CORPORATION
1045 S East Street
Anaheim, CA 92815-8508
714 956-9321
•UPS Systems

GENICOM CORPORATION
1 Genicom Drive
Waynesboro, VA 22980
800 443-6426 • 703 949-1170
•Laser Printers •Band Printers •Dot Matrix Printers

GENISCO PERIPHERAL SYSTEMS
10874 Hope Street
Cypress, CA 90630
714 220-0720
•Workstations •Graphics Terminals

GEO BASED SYSTEMS, INC.
P.O. Box 13545
Research Triangle Park, NC 27709
919 361-5717
•Workstations

GESCAN INTERNATIONAL, INC.
P.O. Box 12599
Research Triangle Park, NC 27709
800 982-2177 • 919 460-3100
•Specialized Systems

GIGATREND, INC.
2234 Rutherford Road
Carlsbad, CA 92008
619 931-9122
•Tape Subsystems

GLASGAL COMMUNICATIONS, INC.
151 Veterans Drive
Northvale, NJ 07647
201 768-8082
•Distributors & Resellers •System Integrators

GOLD KEY ELECTRONICS, INC.
5 Lamy Drive
Goffstown, NH 03045
603 625-8518
•Switching Devices

GOTEC, LTD.
31 Derby Road
Heaton Moor
Stockport, Cheshire, United Kingdom SK4 4NE
061 446-2171
•UPS Systems

GOULD, INC.
Imaging & Graphics Division
46360 Fremont Blvd.
Fremont, CA 94538
415 498-3200
•Image Processors

GPC TECHNOLOGY CORPORATION
6821 W. 70th Street
Shreveport, LA 71129
318 686-1600
•Display Terminals

GRAPHICS DEVELOPMENT CORPORATION
6479 Reflection Drive
Dublin, OH 43017
614 766-0440
•Graphics Terminals •Display Terminals

GRAPHON CORPORATION
1980 Concourse Drive
San Jose, CA 95131
408 435-8400 • 800 GRA-PHON
•Graphics Terminals •X Window Terminals

GROUP THREE ELECTRONICS
1034 Kiel Court
Sunnyvale, CA 94089
408 747-1800
•Disk Subsystems •Tape Subsystems •Distributors & Resellers

GRUMMAN DATA SYSTEMS
250 Crossways Park W
Woodbury, NY 11797
800 922-1225 • 800 792-5423 (MA)
•Maintenance •System Integrators

H

HACOPIAN & ASSOCIATES
200 W 7th Street
Texas Building
Fort Worth, TX 76102
817 877-3040
•Distributors & Resellers

HARRIS CORPORATION
1025 W NASA Blvd.
Melbourne, FL 32919
800 442-7747 • 407 727-9126
•Display Terminals

HAYES MICROCOMPUTER PRODUCTS, INC.
P.O. Box 105203
Atlanta, GA 30348
404 449-8791
•Modems

HDR POWER SYSTEMS, INC.
4242 Reynolds Drive
Hilliard, OH 43026-9908
614 771-5500 • 614 275-3113
•UPS Systems

HECON CORPORATION
15 Meridian Road
Eatontown, NJ 07724
201-542-9200
•Hard Copy Units

HERITAGE COMMUNICATION SYSTEMS
One West Deer Valley
Suite 104
Phoenix, AZ 85027
602 780-1497
•Special Function Boards

HETRA, INC.
10300 102nd Terrace
P.O. Box 9000
Sebastian, FL 32958
407 589-7331
•Laser Printers •Band Printers

HEWLETT-PACKARD COMPANY
3000 Hanover Street
Palo Alto, CA 94304
415 857-1501
•Graphics Terminals •Display Terminals •Laser Printers •Dot Matrix Printers •Ink Jet Printers •Pen Plotters

HITACHI AMERICA, LTD.
950 Benicia Avenue
Sunnyvale, CA 94086
408 773-8833
•Ink Jet Printers

HITRON CORPORATION
362 Highway 31
Flemington, NJ 08822-9301
201 782-5525
•UPS Systems

HONEYWELL
Test Instrument Division
Box 5227 MS:211
Denver, CO 80217-5227
303 773-4491
•Tape Subsystems

HONEYWELL INFORMATION SYSTEMS
2701 4th Avenue
South Honeywell Plaza
Minneapolis, MN 55408
612 870-5200 • 612 896-3848
•Display Terminals

HOUSTON INSTRUMENT
8500 Cameron Road
Austin, TX 78753
512 835-0900
•Pen Plotters

HOWTEK, INC.
21 Park Avenue
Hudson, NH 03051
603 882-5200
•Ink Jet Printers

HRL ASSOCIATES, INC.
2102-B Gallows Road
Vienna, VA 22180
703 448-1442
•Maintenance

HUMAN DESIGNED SYSTEMS
3440 Market Street
Philadelphia, PA 19104
800 437-1551 • 215 382-5000
•Graphics Terminals •Display Terminals •X Window Terminals

HYBRICON
12 Willow Road
Ayer, MA 01432
508 772-5422
•Enclosures •Special Function Boards

I

IBM CORPORATION
Old Orchard Road
Armonk, NY 10504
800 IBM-7257 • 914 765-1900
•Display Terminals

ICS DATACOM
2185 Old Oakland Road
San Jose, CA 95131
408-263-4844
•Multiplexers

ICS, INC.
520 Interstate Road
Addison, IL 60101
312 543-6200
•UPS Systems

IDEAL TECHNOLOGIES
13101 Washington Blvd. #309
Los Angeles, CA 90066
213 827-9023
•Distributors & Resellers

IDENTICON
25 Carol Street
P.O. Box 996
Clifton, NJ 07014-0996
201 472-1331
•Bar Code Readers

IKON CORPORATION
2617 Western Avenue
Seattle, WA 98121
206 728-6465
•Host Adapters

ILLINOIS COMPUTER CABLE
5207 Walnut Street
Downers Grove, IL 60515
312 870-0200
•Wiring Systems and Cables

IMAGE GRAPHICS, INC.
917 Bridgeport Avenue
Shelton, CT 06484
203 926-0100
•Magnetography Printers

IMPERIAL TECHNOLOGY, INC.
831 South Douglas Street
El Segundo, CA 90245
213 536-0018
•Solid State Storage

IMPRIMIS TECHNOLOGY, INC.
Subsidiary of Control Data Corporation
12701 Whitewater Drive
Minnetonka, MN 55343
612 931-8658
•Disk Drives

IMUNELEC, INC.
7600 Jericho Tnpk. #201
Woodbury, NY 11797
516 364-8122
•UPS Systems

INCOMM DATA SYSTEMS
652 S Wheeling Road
Wheeling, IL 60090
312 459-8881 • 800 346-2660
•Multiplexers •Modems

INCOTEL, INC.
5 Penn Plaza
New York, NY 10001
212 594-8340
•Communication Processors

INFORMATION STORAGE INC. (ISI)
2768 Janitell Road
Colorado Springs, CO 80906
719 579-0460
•Optical Drives

INFORMER COMPUTER TERMINALS
12781 Pala Drive
Garden Grove, CA 92641
714 891-1112
•Display Terminals

INFOSCRIBE, INC.
11507 Sunset Hills Road
Reston, VA 22090
703 689-2805
•Dot Matrix Printers

INFOTRON SYSTEMS CORPORATION
9 N Olney Avenue
Cherry Hill, NJ 08003
800 345-4636 • 609 424-9400
•Multiplexers

INNOVATIVE DATA TECHNOLOGY
5340 Eastgate Mall
San Diego, CA 92121
619 587-0555
•Tape Drives •Tape Subsystems

INTECOLOR CORPORATION
Graphic Systems Division
2150 Boggs Road
Building 200
Duluth, GA 30136
404 623-9145
•Graphics Terminals

INTEGRATED AUTOMATION
Industrial Products Division
1301 Harbor Bay Pkwy.
Alameda, CA 94501
415 769-5400
•Graphics Terminals

INTEGRATED DESIGN ENGINEERING, INC.
1078 Headquarters Pkwy.
Fenton, MO 63026
314 343-0005
•Distributors & Resellers

INTEGRATED SOLUTIONS, INC.
1140 Ringwood Court
San Jose, CA 95131
408 943-1902
•Workstations

INTEGRATED SYSTEMS GROUP, INC.
920 East Broadway
Glendale, CA 91205
818 502-1414 • 800 502-1414
•Maintenance

INTEL CORPORATION
2402 W Beardsley Road
DV2-95
Phoenix, AZ 85027
602 869-3805
•Communication Controllers •Host Adapters •Networking Interfaces •Special Function Boards

INTELLIGENT CONTROLS INC.
6825 216th Street
Lynwood, WA 98036
800 842-0221 • 206 771-8107
•Bar Code Readers

INTERACTIVE MACHINES, INC.
26588 Agoura Road
Calabassas, CA 91302
818 707-1880
•Graphics Terminals

INTERGRAPH CORPORATION
One Madison Industrial
M/S IW1510
Huntsville, AL 35807
205 772-2000
•Workstations

INTERLAN, INC.
155 Swanson Road
Boxborough,MA01719
508 263-9929
•Communication Protocol Interfaces •Terminal Servers •Ethernet Devices

INTERLINK COMPUTER SCIENCES, INC.
47370 Fremont Blvd.
Fremont, CA 94538-6501
415 657-9800
•Networking Interfaces

INTERLOGIC INDUSTRIES
85 Marcus Drive
Melville, NY 11747
516 420-8111
•Enclosures

INTERNATIONAL COMPUTER POWER
2620 N Lee Avenue
South El Monte, CA 91733
818 443-7557
•UPS Systems

INTERNATIONAL DATA SCIENCES, INC.
7 Wellington Road
Lincoln, RI 02865
401 333-6200 • 800 437-3282
•Monitoring & Test Devices

INTERNATIONAL DATA TECHNOLOGY
1551 NW 65th Avenue
Plantation, FL 33313
305 587-6823
•Memory Boards

INTERNATIONAL IMAGING SYSTEMS
1500 Buckeye Drive
Milpitas, CA 95035
408 262-4444
•Image Processors

INTERNATIONAL POWER MACHINES CORPORATION
2975 Miller Park N
Garland, TX 75042
214 272-8000 • 800 527-1208
•UPS Systems •Smart Ambient Monitors •Power Distribution Controllers

INTERNATIONAL SOFTWARE CORPORATION
528 Commons Drive
Golden, CO 80401
303 526-0388
•Graphics Controllers

INTERSCIENCE COMPUTER SERVICES
5171 Clareton Drive
Agoura Hills, CA 91301
818 707-2000
•Laser Printers •Band Printers •Dot Matrix Printers

INTERSTATE ELECTRONICS CORPORATION
1001 East Ball Road
P.O. Box 3117
Anaheim, CA 92803
714 758-0500
•Array Processors

INTRA COMPUTER INC.
875 Avenue of the Americas
New York, NY 10001
212 947-5533
•Smart Ambient Monitors

IOLINE CORPORATION
12020 113th Avenue #250
Kirkland, WA 98034
206 821-2140
•Pen Plotters

IPS TECHNOLOGY
11201 Richmond Avenue
Suite A102
Houston, TX 77082
713 870-0880
•Optical Subsystems •Tape Subsystems •Tape Controllers

ISA CONSULTANTS
5550 Touhy Avenue
Suite 204
Skokie, IL 60077
312 677-3530
•Monitoring & Test Devices

ISOREG CORPORATION
410 Great Road
Littleton, MA 01460
508 486-9483
•UPS Systems •Power Distribution Controllers •Power Conditioners

ITHACA PERIPHERALS, INC.
147 Main Street
Groton, NY 13073
607 898-9970
•Dot Matrix Printers

IVERSON, INC.
One Saunders Avenue
San Anselmo, CA 94960
415 459-5665
•Special Function Boards

J

JACK HADLEY DESIGN
4636 Devonshire Street
Boulder, CO 80301
303 530-7628
•Distributors & Resellers

JADTEC COMPUTER GROUP
546 W Katella Avenue
Orange, CA 92667
714 997-8927
•Distributors & Resellers •Maintenance •Services

JDL, INC.
2649 Townsgate Road #104
Westlake Village, CA 91361
805 495-3451
•Dot Matrix Printers

JENSEN TOOLS, INC.
7815 S 46th Street
Phoenix, AZ 85044
602 968-6241
•Supplies

JOHN FLUKE MANUFACTURING COMPANY, INC.
P.O. Box C9090
Everett, WA 98206
206 356-5425
•Monitoring & Test Devices

JORDAN ELECTRONICS
1590 N Batavia Street Suite 3
Orange, CA 92667
714 998-1810
•Distributors & Resellers

JUPITER SYSTEMS
1100 Marina Village
Alameda, CA 94501
415 523-9000
•Workstations

K

K&C TECHNOLOGIES, INC.
5075 Moorpark Avenue
San Jose, CA 95129
408 257-1445
•Monitoring & Test Devices

K-SYSTEMS OF TEXAS
11501 Rojas Drive Suite P
El Paso, TX 79936
915 598-9769
•Special Function Boards

K/REP SALES
2733 Shelter Island Suite 237
San Diego, CA 92106
619 457-9654
•Distributors & Resellers

KCS COMPUTER SERVICES
7462 Talbert Avenue
Huntington Beach, CA 92647
714 848-7971
•Maintenance

KEL-MAT/DAK
P. O. Box 17117
Pittsburgh, PA 15235
412 361-7400
•Distributors & Resellers

KENNEDY COMPANY
A Division of Shugart Corporation
9292 Jeronimo Road
Irvine, CA 92718
714 770-1100
•Tape Drives

KENTEK INFORMATION SYSTEMS
6 Pearl Court
Allendale, NJ 07401
201 825-8500
•Laser Printers

KIMBERLY ELECTRONICS
140 Route 17 N Street
Paramus, NJ 07652
800 843-4009 • 201 387-0872
•Distributors & Resellers

KIMTRON CORPORATION
1709 Junction Court Bldg. 380
San Jose, CA 95112-1090
800 828-8899 • 408 436-6550
•Display Terminals •Bar Code Readers

KINETICS, A DIVISION OF EXCELAN
2540 Camino Diablo
Walnut Creek, CA 94596
415 947-0998
•Ethernet Devices

KINETICSYSTEMS CORPORATION
11 Maryknoll Drive
Lockport, IL 60441
815 838-0005
•Specialized Systems

KMW SYSTEMS CORPORATION
6034 West Courtyard Suite 100
Austin, TX 78730
512 338-3000
•Networking Interfaces

KOM, INC.
145 Spruce Street
Ottawa, Ontario, Canada KIR 6P1
613 238-7766
•Optical Subsystems •Disk Controllers

KYOCERA UNISON, INC.
3165 Adeline Street
P.O. Box 3056
Berkeley, CA 94703
415 848-6680
•Laser Printers

L

L.A. CABLE CONNECTION
340 W Regent Street Suite 4
Inglewood, CA 90301-1188
213 419-2900
•Distributors & Resellers •VARs

LAGO SYSTEMS
160-E Albright Way
Los Gatos, CA 95030
408 374-1818
•Disk Controllers

LAMCOM CORPORATION
112 W Canada
San Clemente, CA 92672
714 361-8895
•Distributors & Resellers •Services

LAN SYSTEMS, INC.
784 Ulloa Street
San Francisco, CA 94127
415 566-4798
•Multiplexers •Modems

LANMARK TELECOM, INC.
2624 Fayette Drive
Mountain View, CA 94040
415 941-4163
•Wiring Systems and Cables

LANPAR TECHNOLOGIES, INC.
35 Riviera Drive
Markham, Ontario,
Canada L3R 8N4
416 475-9123 • 800 387-4205
•Graphics Terminals •Display Terminals

LANTEK
2131 University Avenue #412
Berkeley, CA 94704
415 549-0928
•Communication Processors

LASER MAGNETIC STORAGE
4425 Arrows West Drive
Colorado Springs, CO 80907-3489
719 593-7900
•Optical Drives •Tape Drives

LASERDATA, INC.
10 Technology Drive
Lowell, MA 01851
508 937-5900
•Specialized Systems

LASERDRIVE
1101 Space Park Drive
Santa Clara, CA 95054
408 920-3600
•Optical Drives •Optical Subsystems

LASERGRAPHICS, INC.
17671 Cowan Avenue
Irvine, CA 92714
714 660 9497
•Thermal Transfer Printers

LDI TECHNOLOGIES
2368 Victory Parkway Suite 401
Cincinnati, OH 45206
513 281-4100
•Distributors & Resellers •Leasing/Rental

LEE DATA CORPORATION
7075 Flying Cloud Drive
Eden Prairie, MN 55344
612 828-0523 • 800 328-3998
•Graphics Terminals •Display Terminals

LEEMAH DATACOM SECURITY CORPORATION
3948 Trust Way
Hayward, CA 94545
415 786-0790
•Security Systems

LEX COMPUTER SYSTEMS
371 Van Ness Way
Suite 200
Torrance, CA 90501
213 320-9800
•Distributors & Resellers •Services •Maintenance •Leasing/Rental •System Integrators
Additional Sales Offices:
Boston, MA
617 439-5959

New York/New Jersey
201 757-1121 • 800 234-LEXX
Washington, DC
301 720-1000 • 800 336-7779

Orlando, FL
407 767-0007 • 800 321-0800

Philadelphia, PA
215 956-0504

Chicago, IL
312 250-7380 • 800 777-LEXX

San Francisco, CA
415 654-9013 • 800 356-5359

Orange County, CA
714 250-9402

Los Angeles, CA
213 320-9800

Hartford, CT
203 633-8675

Detroit, MI
313 522-0024

Milwaukee, WI
414 782-6767

LEXIDATA
A Division of Adage Inc.
165 Lexington Road
Billerica, MA 01821
508 667-7070
•Graphics Terminals

LIBERTY ELECTRONICS
332 Harbor Way
South San Francisco, CA 94080
415 742-7000
•Graphics Terminals •Display Terminals

LIEBERT CORPORATION
1050 Dearborn Drive
P.O. Box 29186
Columbus, OH 43229
614 888-0246
•UPS Systems

LIFESENSE COMPUTER PRODUCTS, INC.
18305 Minnetonka Blvd.
Wayzata, MN 55391
612 473-2737 • 800 937-2242
•Distributors & Resellers •Leasing/Rental

LINK TECHNOLOGIES, INC.
47339 Warm Springs Blvd.
Fremont, CA 94539
415 651-8000 • 800 448-5465
•Display Terminals

LINOTYPE COMPANY
425 Oser Avenue
Hauppauge, NY 11788
516 434-2016
•Laser Printers

LIOCS CORPORATION
246 E Janata Blvd. Suite 262
Lombard, IL 60148
312 953-2220
•OEMs •Distributors & Resellers •System Integrators

LION CABINETS
249 Goffle Road
Hawthorne, NJ 07506
201 427-3500
•Enclosures

LOCAL DATA
2771 Plaza Del Amo
Torrance, CA 90503
213 320-7126
•Communication Protocol Interfaces

LOGICRAFT, INC.
22 Cotton Road
Nashua, NH 03063
603 880-0300
•Specialized Systems

LORTEC POWER SYSTEMS, INC.
145 Keep Court
Elyria, OH 44035
216 327-5050 • 800 222-2600
•UPS Systems

LSI LOGIC SCIENCES, INC.
10808 Fallstone Road
Houston, TX 77099
713 879-0536
•Graphics Controllers

LXE
303 Research Drive
Norcross, GA 30092
404 447-4224
•Specialized Systems •Display Terminals

M

MACDONALD DETTWILER & ASSOCIATES
3751 Shell Road
Richmond, BC, Canada V6X 2Z9
604 278-3411
•Laser Printers •Miscellaneous Printers

MAINTECH
1133 Avenue of the Americas
New York, NY 10038
800 426-TECH
212 827-2603
•Monitoring & Test Devices •Maintenance

MANAGEMENT COMPUTER SERVICE
113 North State Street
Ansonia, CT 06401
203 732-5177
•Distributors & Resellers

MARWAY PRODUCTS, INC.
311 N Clara Street
Santa Ana, CA 92703
714 973-1800
•Power Distribution Controllers

MATROX ELECTRONIC SYSTEMS
1055 St. Regis Blvd.
Dorval, Quebec, Canada H9P 2T4
514 685-2630
•Image Processors •Graphics Controllers

MAXCOMP COMPUTERS, INC.
3800 Monroe Avenue
Pittsford, NY 14534
716 381-8320
•System Integrators

MAXTOR CORPORATION
211 River Oaks Parkway
San Jose, CA 95134
408 432-1700
•Disk Drives •Optical Drives

MCCOMB RESEARCH
245 East Sixth Street
St. Paul, MN 55101
612 298-9561
•Networking Interfaces

MCDONNELL DOUGLAS
Information Systems Group
McDonnell Blvd.
P.O. Box 516
St. Louis, MO 63166-0516
800 325-1551 • 314 232-7671
•Workstations •Graphics Terminals

MCDONNELL DOUGLAS
Field Service
2361 McGaw Avenue
P.O. Box 16427
Irvine, CA 92713
714 250-1000
•Distributors & Resellers •Maintenance

MCG ELECTRONICS, INC.
12 Burt Drive
Deer Park, NY 11729
516 586-5125
•Power Conditioners

MCS COMPUTER PRODUCTS, INC.
2785 White Bear Avenue
St. Paul, MN 55109
612 770-5232
•Multiplexers •Optical Subsystems •Memory Boards •Distributors & Resellers

MDB SYSTEMS, INC.
1110 West Taft Avenue
Box 5508
Orange, CA 92613
714 998-6900
•CPU Upgrades •Multiplexers •Communication Processors •Communication Controllers •Host Adapters •Terminal Servers •Disk Subsystems •Disk Controllers •Printer Controllers •Enclosures

MEADOWLARK ENTERPRISES, INC.
37 High Street
Danvers, MA 01923
508 777-4666
•Distributors & Resellers •Leasing/Rental

MEGA VISION
5765 Thornwood
Goleta, CA 93117
805 964-1400
•Graphics Controllers

MEGADATA CORPORATION
35 Orville Drive
Bohemia, NY 11716
516 589-6800
•Graphics Terminals

MEGATAPE CORPORATION
1041 Hamilton Road
P.O. Box 317
Duarte, CA 91010-0317
818 357-9921
•Tape Drives •Tape Subsystems

MEGATEK CORPORATION
9645 Scranton Road
San Diego, CA 92121
619 455-5590
•Graphics Terminals

MEMORY SCIENCES CORPORATION
9028 Prince William
Manassas, VA 22110
703 361-9745
•Host Adapters •Disk Subsystems •Disk Controllers •Solid State Storage

MENTEC COMPUTER SYSTEMS, LTD.
Mentec House
Pottery Road, Dun Laoghaire
Dublin, Ireland
353-1-858444
•CPU Systems

MERCURY COMPUTER SYSTEMS
600 Suffolk Street
Lowell, MA 01854
508 458-3100
•Array Processors

MESA TECHNOLOGY CORPORATION
9720 Patuxent Woods Drive
Columbia, MD 21046
301 290-8150
•Distributors & Resellers •Maintenance •Supplies

METHEUS CORPORATION
1600 NW Compton Drive
OGC Science Park
Beaverton, OR 97006-6905
503 690-1550
•Graphics Controllers

METHOD SYSTEMS, INC.
3511 Lost Nation Road Suite 202
Willoughby, OH 44094
800 533-6116 • 216 942-2100
•Multiplexers •Communication Protocol Interfaces •Ethernet Devices

MEYER SOFTWARE
616 Continental Road
Hatboro, PA 19040
215 675-3890
•Services

MICOM COMMUNICATIONS CORPORATION
4100 Los Angeles Avenue
P.O. Box 8100
Simi Valley, CA 93062-8100
805 583-8600
•Multiplexers •Communication Protocol Interfaces •Switching Devices •X.25 PAD Processors

MICRO SOLUTIONS
10670 N Central Suite 110
Dallas, TX 95204
214 361-5578
•Distributors & Resellers

MICRO TECHNOLOGY, INC.
5065 E Hunter Avenue
Anahiem, CA 92807
714 632-7580 •800 FON-4MTI
•Ethernet Devices •Disk Subsystems •Disk Controllers •Tape Subsystems

MICRO-TERM INC.
3630 South Geyer #3
St. Louis, MO 63127
314 822-4111
•Graphics Terminals •Display Terminals

MICROCOM, INC.
500 River Ridge Road
Norwood, MA 02062
617 551-1000
•Specialized Systems •Modems •Ethernet Devices

MICROPOLIS CORPORATION
21211 Nordhoff Street
Chatsworth, CA 91311
818 709-3300
•Disk Drives

MICROTEK SYSTEMS INTERNATIONAL
8370 Dow Circle
Cleveland, OH 44136
800 828-0303 • 216 234-8040
•Distributors & Resellers

MICROTRONIX SYSTEMS, LTD.
120 Bessemer Road
London, Ontario, Canada N6E 1R2
519 681-3430
•Communication Processors •X.25 PAD Processors

MID-AMERICA COMPUTER CORPORATION
101 E Carmel Drive
Carmel, IN 46032
800 234-1028 • 317 846-3101

MIDWEST SYSTEMS, INC.
2800 Southcross Drive
Burnsville, MN 55337-9953
800 328-7000 • 612 894-4020
•Distributors & Resellers

MILTOPE CORPORATION
1770 Walt Whitman Road
Melville, NY 11747
516 420-0200
•Disk Drives •Tape Drives •Tape Controllers •Graphics Terminals •Ion Deposition Printers

MINI COMPUTER TECHNOLOGY
696 E Trimble Road
San Jose, CA 95131
408 435-1616
•Disk Controllers

MINICOMPUTER EXCHANGE
1010 Stewart Drive
Sunnyvale, CA 94086
408 733-4400
•Distributors & Resellers •Leasing/Rental •System Integrators

MINNECOMPUTERS, INC.
9201 East Bloomington
Minneapolis, MN 55420
612 884-6601
•Distributors & Resellers

MINOLTA CORPORATION
101 Williams Drive
Ramsey, NJ 07446
201 825-4000
•Specialized Systems

MIPS COMPUTER SYSTEMS, INC.
928 Arques Avenue
Sunnyvale, CA 94086
408 720-1700
•CPU Systems •Workstations

MISCO
One Misco Plaza
Holmdel, NJ 07733
201 264-8200
•Supplies

MITEK SYSTEMS CORPORATION
2033 Chennault Drive #100
Carrollton, TX 75006
214 490-4090
•Special Function Boards

MITEK SYSTEMS, INC.
6225 Nancy Ridge Drive
San Diego, CA 92121
619 587-9157 • 800 367-5660
•Laser Printers

MOD-TAP SYSTEM
285 Ayer Road
P.O. Box 706
Harvard, MA 01451
508 772-5630
•Wiring Systems and Cables •System Integrators

MODGRAPH, INC.
149 Middlesex Tnpk.
Burlington, MA 01803
617 229-4800
•Graphics Terminals

MONOLITHIC SYSTEMS CORPORATION
7050 S Tucsan Way
Englewood, CO 80112
303 790-7400
•Memory Boards

MOTOROLA INFORMATION SYSTEMS
9445 Airport Road
Brampton, Ontario,
Canada L6S 4J3
416 793-5700
•Multiplexers

MRI COMPUTERS
1520 NW 65th Avenue # 2
Ft. Lauderdale, FL 33313
305 587-7464
•Special Function Boards

MTI SYSTEMS CORPORATION
38 Harbor Park Drive
Port Washington, NY 11050
516 621-6200 • 800 645-6530
•Distributors & Resellers •Leasing/Rental •System Integrators

MULTI-TECH SYSTEMS, INC.
82205 Woodale Drive
Mounds View, MN 55112
800 328-9717 • 612 785-3500
•Multiplexers •Modems

MULTIFLOW COMPUTERS, INC.
175 N Main Street
Branford, CT 06405
203 488-6090
•CPU Systems

MULTITRONICS
340 Manley Street
West Bridgewater, MA 02379
800 BUY-A-VAX • 508 584-2800
•Distributors & Resellers •Leasing/Rental

N

N.E.T. COMDESIGN DATA COMMUNICATIONS GROUP
26 Castilian Drive
Santa Barbara, Ca 93117
805 562-3312
•Multiplexers •Modems •X.25 PAD Processors

NATIONAL COMPUTER SYSTEMS
400 Northridge Road
Atlanta, GA 30350
404 641-4100
•Services

NATIONAL DATA CONVERSION INSTITUTE
5 East 16th Street
New York, NY 10003
212 463-7511
•Services

NATIONAL INSTRUMENTS
6504 Bridgeport Blvd.
Austin, TX 78731
512 250-9119
•IEEE-488 Interfaces

NATIONAL SEMICONDUCTOR CORPORATION
Memory Systems M/S-7315
2900 Semiconductor Drive
P.O. Box 8090 M/S 73
Santa Clara, CA 95050-8090
800 538-8510 • 800 345-4006 (CA)
•Memory Boards

NBS SOUTHERN, INC.
11451 South Belcher
Largo, FL 34643
800 327-5602 • 813 441-1981
•Laser Printers •Ion Deposition Printers

NEC INFORMATION SYSTEMS, INC.
1414 Massachusetts Avenue
Boxborough, MA 01719
508 264-8000
•Laser Printers

NEMATRON CORPORATION
5840 Interface Drive
Ann Arbor, MI 48103
313 994-0501
•Display Terminals

NEMONIX, INC.
106 South Street
Hopkinton, MA 01748
800 435-8650 • 508 435-9087
•CPU Upgrades •Memory Boards •Special Function Boards

NETWORK COMPUTING DEVICES
350 N Bernardo Avenue
Mountain View, CA 94043
415 694-0650
•X Window Terminals

NETWORK GENERAL CORPORATION
1945A Charleston Road
Mountain View, CA 94043
415 965-1800
•Monitoring & Test Devices

NETWORX DATA PRODUCTS COMPANY
80 Modular Avenue
Commack, NY 11725
516 864-5800
•Display Terminals

NEVADA WESTERN
615 North Tasmen Drive
Sunnyvale, CA 94089
408 734-2700
•System Integrators

NEW YORK COMPUTER EXCHANGE
130 Gazza Blvd.
Farmingdale, NY 11735
516 752-8666 • 800 645-9109
•Distributors & Resellers

NEWGEN SYSTEMS CORPORATION
17580 Newhope Street
Fountain Valley, CA 92708
714 641-8600
•Laser Printers

NISSEI SANGYO AMERICA, LTD.
A Division of Hitachi
11770 Bernardo Plaza Suite 300
San Diego, CA 92128
619 485-8552
•Laser Printers •Band Printers

NISSHO ELECTRONICS CORPORATION
17310 Red Hill Avenue
Irvine, CA 92714
714 261-8811
•CPU Upgrades •Laser Printers

NORTH ATLANTIC INDUSTRIES
Peripheral Products Department
60 Plant Avenue
Hauppauge, NY 11788
516 582-6060
•Dot Matrix Printers

NORTHEAST MINICOMPUTER, INC.
55 High Street Unit 6
Billerica, MA 01862
508 663-2550
•Distributors & Resellers

NORTHEAST PERIPHERALS INC.
106 Access Road
P.O. Box 602
Norwood, MA 02062
617 769-9110
•Distributors & Resellers

NORTHERN PACIFIC POWER DEVICES
12919 Alcosta Blvd.
San Ramon, CA 94583
415 866-9415
•UPS Systems

NORTHERN TELECOM, INC.
640 Massman Drive
Nashville, TN 37210
800 558-9936 • 615 883-9220
•Display Terminals

NORTHWEST DIGITAL SYSTEMS
10303 Aurora Avenue
P.O. Box 15288
Seattle, WA 98133
206 524-0014
•Graphics Terminals •X Window Terminals

NOVA ELECTRIC, INC.
263 Hillside Avenue
Nutley, NJ 07110
201 661-3434
•UPS Systems

NU DATA, INC.
32 Fairview Avenue
P.O. Box 125
Little Silver, NJ 07739-1515
201 842-5757
•Monitoring & Test Devices

NUMERIX CORPORATION
20 Ossipee Road
Newton, MA 02164-1444
617 964-2500
•Array Processors

NUMONICS CORPORATION
101 Commerce Drive
Montgomeryville, PA 18936
215 362-2766
•Pen Plotters

O

OASYS
Division of Xel, Inc.
230 2nd Avenue
P. O. Box 8990
Watham, MA 02254
617 890-7889
•Specialized Systems

OFFICE AUTOMATON SYSTEMS INC.
9940 Barnes Canyon Rd.
San Diego, CA 92121
619 452-9400
•Laser Printers

OKIDATA CORPORATION
532 Fellowship Road
Mt. Laurel, NJ 08054
800 654-3282 • 609 235-2600
•Dot Matrix Printers

OMICRON TELESYSTEMS, INC.
6600 Trans Canada Hwy.
Pointe Claire, Quebec,
Canada H9R 4S2
514 694-3457 • 514 738-3962
•Switching Devices

OMNICOMP GRAPHICS CORPORATION
1734 West Belt North
Houston, TX 77043
713 464-2990
•Workstations

ONYX COMPONENTS
44 East Beaver Creek
Unit 14, Richmond Hill
Ontario, Canada L4B 1G8
416 881-4414
•Distributors & Resellers
•Leasing/Rental

OPTICAL COATING LABORATORY INC.
2789 Northpoint Park
Santa Rosa, CA 95407-7397
707 545-6440
•Supplies

OPTICAL DATA SYSTEMS
1226 Exchange Drive
Richardson, TX 75081
214 234-6400
•Multiplexers •Modems •Ethernet Devices

OPTICOMM CORPORATION
5505 Morrehouse Drive Suite 150
San Diego, CA 92121
619 450-0143
•Specialized Systems

OPTIMEM
297 North Bernardo A
Mountain View, CA 94043
415 961-1800
•Optical Drives

OPTIVISION, INC.
2655 Portage Bay Avenue
Davis, CA 95616
916 756-4429
•Ethernet Devices •Special Function Boards

OPTO 22
15461 Springdale Street
Huntington Beach, CA 92649
714 891-5861
•Analog-to-Digital Conversion •Analog I/O •Digital I/O

OPTRONICS, INC.
7 Stuart Road
Chelmsford, MA 01824
617 256-4511
•Miscellaneous Printers

OUTPUT TECHNOLOGY CORPORATION
9922 E. Montgomery #6
Spokane, WA 99206
509 926-3855
•Dot Matrix Printers

P

PACE
P. O. Box 666
Franklin Lakes, NJ 07410
201 791-8903
•Distributors & Resellers

PANAMAX
150 Mitchell Blvd.
San Rafael, CA 94903-2057
800 472-5555 • 800 472-6262 (CA)
•UPS Systems

PANASONIC
Computer Products Division
Two Panasonic Way
Secaucus, NJ 07094
201 392-4406
•Laser Printers •Daisy Wheel Printers •Dot Matrix Printers

PARACOM, INC.
245 W Roosevelt Road
West Chicago, IL 60185
312 293-9500
•Specialized Systems

PATTON ELECTRONICS COMPANY
7958 Cessna Avenue
Gaithersburg, MD 20879
301 493-9665
•Multiplexers •Modems

PERCEPTICS CORPORATION
725 Pellissippi Park
Knoxville, TN 37933
615 966-9200
•Image Processors •Optical Drives •Optical Subsystems

PERCON, INC.
2190 W 11th Street
Eugene, OR 97402
503 344-1189 • 503 344-1399
•Bar Code Readers

PERFECT TERMINALS, INC.
42307 Osgood Road
Fremont, CA 94538
800 624-6422 • 800 472-2900 (CA)
•Display Terminals

PERICOM INC.
9 Princess Road #D
Lawrenceville, NJ 08648
609 895-0404
•Workstations •Graphics Terminals

PERIPHERAL MANUFACTURING, INC.
1363 Logan Avenue
Costa Mesa, CA 92626
800 468-6888 • 714 540-4925
•Distributors & Resellers •Maintenance •Supplies
Additional Sales Office:
2540 Shaughnessy Street
Suite 200
Port Coquitlam, BC
Canada V3C 3W4
604 942-5718

PERIPHERAL PARTS SUPPORT, INC.
411 Waverly Oaks Road
Waltham, MA 02154
617 891-9101
•Distributors & Resellers

PERITEK CORPORATION
5550 Redwood Road
Oakland, CA 94619
415 531-6500
•Image Processors •X Window Terminals •Graphics Controllers •Special Function Boards •OEMs

PHOENIX DATA, INC.
3384 West Osborn Road
Phoenix, AZ 85017
602 278-8528
•Analog-to-Digital Conversion •Digital I/O •Digital-to-Analog Conversion

PIONEER COMMUNICATIONS OF AMERICA, INC.
600 E Crescent Avenue
Upper Saddle River, NJ 074568
800 421-6450 • 201 327-6400
•Optical Drives •Optical Subsystems •Disk Controllers •Solid State Storage

PIONEER TECHNOLOGIES GROUP
15810 Gaither Drive
Gaithersburg, MD 20877
800 227-1693
•Distributors & Resellers

PLEXCOM, INC.
65 Moreland Road
Simi Valley, CA 93065
805 522-3333
•Multiplexers •Modems •Ethernet Devices •Networking Interfaces •Security Systems

PLEXUS COMPUTERS, INC.
3833 North First Street
San Jose, CA 95134
408 943-9433
•Display Terminals

PMC ASSOCIATES
74 North Central Avenue
Ramsey, NJ 07446
201 934-1835
•Disk Subsystems

POWER TECHNIQUES, INC.
40 Aero Camino
Goleta, CA 93117
805 685-0533
•Power Distribution Controllers

PRECISE POWER CORPORATION
715 60th Street Court E
P.O. Box 9547
Bradenton, FL 34206
813 746-3515
•UPS Systems

PRECISION IMAGE CORPORATION
501 Chesapeak Drive
Redwood City, CA 94063
415 366-8900
•Electrostatic Plotters

PRECISION STANDARD TIME
105 Fourier Avenue
Fremont, CA 94539
415 656-4447
•Timing Devices

PRENTICE CORPORATION
266 Caspian Drive
Sunnyvale, CA 94088-3544
408 734-9810
•Modems

PRESTON SCIENTIFIC
805 East Cerritos Avnue
Anaheim, CA 92805
714 776-6400
•Analog-to-Digital Conversion •Analog I/O •Digital-to-Analog Conversion

PRIMAGES, INC.
151 Trade Zone Drive
Ronkonkoma, NY 11779
516 585-8200
•Daisy Wheel Printers

PRINTEK, INC.
1517 Townline Road
Benton Harbor, MI 49022
616 925-3200
•Dot Matrix Printers

PRINTER SYSTEMS CORPORATION
9055 Comprint Court Suite 200
Gaithersburg, MD 20877
301 258-5060
•Laser Printers

PRINTRONIX, INC.
17500 Cartwright Blvd.
P.O. Box 19559
Irvine, CA 92713
714 863-1900
•Laser Printers •Dot Matrix Printers

PROCESSING INNOVATIONS, INC.
10471 S Brookhurst
Anaheim, CA 92804
714 535-8161
•Modems

PROVIDENT RECOVERY SYSTEMS
110 MacKenan Drive
Cary, NC 27511
919 481-0011
•Services

PTI INDUSTRIES
269 Mt. Hermon Road
Scotts Valley, CA 95066
408 438-0946
•UPS Systems

PULIZZI ENGINEERING, INC.
3260 S Susan Street
Santa Ana, CA 92704-6865
714 540-4229
•Power Distribution Controllers

PURVIS SYSTEMS, INC.
1272 W Main Road
Middletown, RI 02840
401 849-4750
•Communication Protocol Interfaces •Special Function Boards

Q

QMS, INC.
One Magnum Pass
Mobile, AL 36618
205 633-4300
•Laser Printers •Thermal Transfer Printers •Printer Controllers

QUADREX COMPUTER SYSTEMS
1700 Dell Avenue
Campbell, CA 95008-6986
408 370-4216
•System Integrators

QUALOGY
1751 McCarthy Blvd.
Milpitas, CA 95035
408 434-5200
•Host Adapters •Optical Subsystems •Disk Controllers

QUICKWARE ENGINEERING DESIGN, INC.
255 Riverview Avenue
Waltham, MA 02154-3874
800 237-1185 • 617 782-8330
•CPU Upgrades

QUME CORPORATION
500 Yosemite Drive
Milpitas, CA 95035
408 942-4000 • 800 223-2479
•Graphics Terminals •Display Terminals •Laser Printers •Dot Matrix Printers

R

RACAL-MILGO
1601 N Harrison Park
Sunrise, FL 33323
800 327-4440 • 305 475-1601
•Modems •Communication Protocol Interfaces •Communication Processors •Switching Devices •Security Systems

RAD DATA COMMUNICATIONS
151 West Passaic Street
Rochelle Park, NJ 07662
201 587-8822
•Multiplexers •Modems

RADCAL-REDAC, INC.
4 Liberty Way
Westford, MA 01886
508 692-4900
•Graphics Terminals

RADGO
3988 McMann Road
Cincinnati, OH 45245
513 752-6880
•Distributors & Resellers

RAMTEK CORPORATION
2211 Lawson Lane
Santa Clara, CA 95050
408 988-2211
•Disk Drives •Graphics Terminals

RANDOM CORPORATION
581 Northland Blvd.
Cincinnati, OH 45240
513 825-0880
•Display Terminals

RANDOMEX, INC.
1100 East Willow Street
Signal Hill, CA 90806
213 595-8301
•Maintenance

RANYON CORPORATION
15235 Springdale Street
Huntington Beach, CA 92649
714 895-5504
•Special Function Boards

RAPID POWER TECHNOLOGIES
Graysbridge Road
P.O. Box 291
Brookfield, CT 06804
203 775-0411 • 800 332-1111
•Power Conditioners

RAYCOM SYSTEMS, INC.
6395 Gunpark Drive
Boulder, CO 80301
303 530-1620
•Multiplexers •Modems •Ethernet Devices

RCA BUSINESS SERVICES
Route 38 Bldg.
Bldg. 204-2
Cherry Hill, NJ 08385
609 486-5526
•Display Terminals

RDK, INC.
P.O. Box 9703
Austin, TX 787669703
512 832-5464
•Thermal Transfer Printers

REAL-TIME DEVICES
1326 West Kettering
P.O. Box 4368
Lancaster, CA 93534
805 948-5396
•Monitoring & Test Devices

RECOGNITION CONCEPTS, INC.
P.O. Box 8510
341 Ski Way
Incline Village, NV 89450
702 831-0473
•Image Processors •Disk Subsystems

RELIABLE COMPUTER SERVICES, INC.
511 S State Street
Lockport, IL 60441
815 838-0134
•Distributors & Resellers

RETIX
2644 30th Street
Santa Monica, CA 90405-3009
800 255-2333 • 213 399-2200
•Ethernet Devices

RICHARD HIRSCHMANN OF AMERICA
Industrial Row
P.O. Box 229
Riverdale, NJ 07574
201 836-5002
•Ethernet Devices

RICOH CORPORATION
2661 Gates Avenue
P.O. Box 16184
Irvine, CA 92714
714 863-0550
•Laser Printers

ROCKWELL INTERNATIONAL CORPORATION
Interface Products Group
3370 Miraloma Avenue
P.O. Box 4921
Anaheim, CA 92804
714 762-1476
•Special Function Boards

ROSE ELECTRONICS
10850 Wilcrest #900
Houston, TX 77099
713 933-7673
•Switching Devices

RTE DELTEC CORPORATION
2727 Kurtz Street
San Diego, CA 92110
619 291-4211
•UPS Systems •Power Conditioners

RUGGED DIGITAL SYSTEMS, INC.
665 Clyde Avenue
Mountain View, CA 94043
415 966-1770
•Specialized Systems

RWT CORPORATION
1601 Feehanville Drive Suite 500
Mt. Prospect, IL 60056
312 390-0200
•Specialized Systems

S

SAEC MICROSYSTEMS
10925 Reed Hartman Suite 311
Cincinnati, OH 45242
513 793-4959
•Workstations

SAFE POWER SYSTEMS, INC.
528 W 21st Street
Tempe, AZ 85282
602 894-6864
•UPS Systems •Power Conditioners

SAI TECHNOLOGY
4224 Campus Point Court
San Diego, CA 92121
800 447-4373 • 619 450-3847
•Workstations •Graphics Terminals

SAMSUNG ELECTRON DEVICES AMERICA, INC.
14251 E Firestone Blvd. Suite 101
La Mirada, CA 90838
213 802-8425
•Graphics Terminals •Display Terminals

SAMSUNG SEMICONDUCTOR
3725 N First Street
San Jose, CA 95134-1708
408 434-5400
•Supplies

SCHERERS
575 Scherers Court
Worthington, OH 43085
614 847-2200 • 614 847-2395
•Distributors & Resellers

SCHLUMBERGER GRAPHICS
385 Ravendale Drive
Mountain View, CA 94043-5217
800 545-5445 • 415 964-7900
•Pen Plotters •Thermal Transfer Printers

SCI SYSTEMS, INC.
5000 Technology Drive
Huntsville, AL 35805
205 882-4800 • 205 882-4340
•Specialized Systems

SCIENTIFIC MICRO SYSTEMS, INC.
339 N Bernardo Avenue
P.O. Box 7777
Mountain View, CA 94043
415 964-5700
•CPU Systems •Disk Subsystems •Optical Subsystems •Disk Controllers •Tape Subsystems

SECONDARY COMPUTER STORAGE
650 N. Cannon Avenue
Lansdale, PA 19446
215 362-7050
•Tape Drives •Tape Controllers

SECURE TECHNOLOGIES, INC.
1504 Providence Highway
Norwood, MA 02062
617 769-6886 • 800 832-LOCK
•Security Systems

SECURITY DYNAMICS
2067 Massachusetts Avenue
Cambridge, MA 02140
617 547-7820
•Security Systems

SEE FIRST TECHNOLOGY, INC.
4655 Old Ironsides Drive Suite 100
Santa Clara, CA 95054
408 748-7717
•Memory Boards •Solid State Storage

SEIKO INSTRUMENTS
Graphic Devices & Systems Division
1130 Ringwood Court
San Jose, CA 95131
408 922-5950 • 408 943-9100
•Workstations •Graphics Terminals •Hard Copy Units •Thermal Transfer Printers

SEIKOSHA AMERICA, INC.
1111 MacArthur Blvd.
Mahwah, NJ 07430
800 338-2609 • 201 529-4655
•Dot Matrix Printers

SEQUOIA SYSTEMS, INC.
3 Metropolitan Corp
Marlborough, MA 01752
508 480-0800
•Specialized Systems

SHAPE MAGNETRONICS, INC.
901 DuPage Avenue
Lombard, IL 60148
203 726-1411 • 800 367-5811
•Power Conditioners

SHARE BASE (BRITTON LEE)
14600 Winchester Blvd.
Los Gatos, CA 95030
408 378-7000
•Database Processors

SI TECHNOLOGY, INC.
P.O. Box 609
Geneva, IL 60134
312 232-8640
•Multiplexers •Modems •Enclosures

SIDLINGER COMPUTER CORPORATION
7551 Callaghan Road Suite 330
San Antonio, TX 78229-2862
512 DIG-ITAL
•Services •System Integrators

SIECOR CORPORATION
489 Siecor Park
Hickory, NC 28601
704 327-5824
•Ethernet Devices •Monitoring & Test Devices

SIEMENS DATA SWITCHING SYSTEMS
5500 Broken Sound Blvd.
Boca Raton, FL 33487
407 955-5000
•Communication Processors

SIGMA INFORMATION SYSTEMS
3407 East La Palma Avenue
Anaheim, CA 92806
714 630-6553
•Multiplexers •Host Adapters •Terminal Servers •Disk Controllers •Tape Controllers •Analog-to-Digital Conversion •Power Distribution Controllers •Enclosures

SILICON GRAPHICS, INC.
P.O. Box 7311
2011 N Shoreline Blvd.
Mountain View, CA 94039-7311
415 960-1980 • 415 962-3365
•Workstations

SIMPACT ASSOCIATES, INC.
9210 Sky Park Court
San Diego, CA 92123
619 565-1865
•Communication Protocol Interfaces •Communication Processors •Host Adapters •Terminal Servers •Networking Interfaces •X.25 PAD Processors •Timing Devices •Services

SKY COMPUTERS, INC.
Foot of John Street
Lowell, MA 01852
508 454-6200
•Array Processors •Special Function Boards

SLR ASSOCIATES
377 Shadow Run Drive
San Jose, CA 95110
408 984-7588
•Tape Subsystems

SOFTWARE RESULTS CORPORATION
940 Freeway Drive N
Columbus, OH 43229
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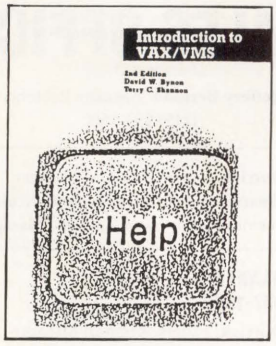
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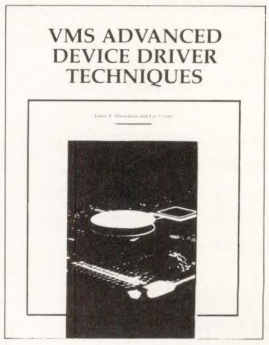


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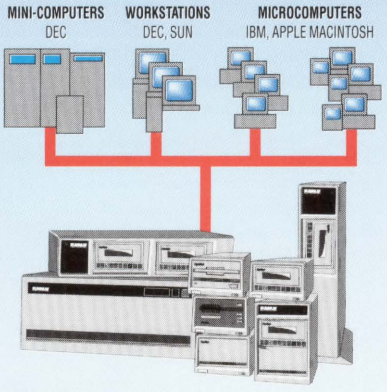
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